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Memorandum

M8141-SLF-05-328

To: S. J. Trent A0-21 Date: July 27, 2005

From: S. L. Fitzgerald, Manager
WSCF Analytical Chemistry

cc: w/Attachments w/o Attachments
T. F. Dale S3-30 D. J. Hart S3-30
H. K. Meznarich S3-30 M. A. Neely S3-30
P. D. Mix S3-30 H. S. Rich S3-28
J. E. Trechter S3-30 L. C. Swanson E6-35
File/LB

Subject: FINAL RESULTS FOR 216-A-8 CRIB CHARACTERIZATION BOREHOLE SAMPLE -
SAMPLE DELIVERY GROUP WSCF20051337 SAF NUMBER F05-023

Reference: (1) Groundwater Protection Program-Letter of Instruction, FH-EIS-2003-MEM-001,
October 31, 2002
(2) HNF-SD-CD-QAPP-017, Rev. 7, Waste Sampling & Characterization Facility Quality
Assurance Plan

This letter contains a narrative (Attachment 1) for sample delivery group WSCF20051337, the analytical results (Attachment 2), and the sample receipt information (Attachment 3).

SLF/grf

Attachments 3

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ATTACHMENT 1

NARRATIVE

Consisting of 6 pages
Including cover page

Sample Delivery Group	WSCF20051337
Sample Matrix	Soil
Sample Visual	N/A
SAF Number	F05-023
Data Deliverable	Summary Report

Introduction

One (1) 216-A-8 Crib Characterization Borehole sample/I-7 (B1D994) was received at the WSCF Laboratory on June 29, 2005. The sample was analyzed for the analytes indicated on the attached copy of the chain of custody (COC) form in accordance with the *Groundwater Remediation Program – Letter of Instruction*, referenced in the cover letter.

The narrative (Attachment 1) will address sample characteristics, analyses requested and general information in performance of the analytical methods. A Data Summary Report (Attachment 2) includes analytical results, a comment report detailing method abnormalities, tentatively identified peaks if applicable, method references, and Laboratory QC information. Copies of the chain of custody and sample receipt are included as Attachment 3.

Analytical Methodology for Requested Analyses

Refer to *WSCF Method References Report*, pages 45 through 46, for a complete listing of approved analytical methods.

Inorganic Comments

Ammonia - The hold time for this analysis was met. A Blank, Duplicate, Laboratory Control Sample, Matrix Spike and Matrix Spike Duplicate were analyzed with each delivery group per GRP Letter of Instruction. See page 11 for QC details. Analytical Notes:

- Sample B1D994 result was B-flagged; the analyte was less than the reportable detection limit, but greater than or equal to the method detection limit.
- Duplicate Relative Percent Difference (RPD) exceeded established laboratory limits. RPD criterion not applicable to low level sample.

All other QC controls are within the established limits.

Anions - The hold times for this analysis were met. A Blank, Duplicate, Laboratory Control Sample, Matrix Spike and Matrix Spiked Duplicate were analyzed with each delivery group per GRP Letter of Instruction. See pages 12 through 13 for QC details. Analytical Note:

- Preparation Date: 07-jul-2005.

All QC controls are within the established limits.

ICP-AES Metals (Bismuth and Phosphorus) – The hold time for this analysis was met. A Blank, Laboratory Control Sample, Matrix Spike and Matrix Spiked Duplicate were analyzed with each delivery group per GRP Letter of Instruction. See page 14 for QC details. Analytical Notes:

- Preparation Date: 18-jul-2005.
- Matrix Spike and Matrix Spike Duplicate QC samples were analyzed on sample# B1D7D0 (SDG# 20051234, F05-023).
- Phosphorus: insufficient spike concentration. Sample concentration was greater than four times the spike concentration.
- Bismuth: The analyte detected in the associated preparation Blank sample was evaluated and there was no significant effect on the sample result.

All other QC controls are within the established limits.

ICP-MS Metals – The hold time for this analysis was met. A Laboratory Control Sample, Matrix Spike and Matrix Spiked Duplicate were analyzed with each delivery group per the GRP Letter of Instruction. See pages 15 through 17 for QC details. Analytical Notes:

- Preparation Date: 06-jul-2005.
- Matrix Spike and Matrix Spike Duplicate QC samples were analyzed on sample# B1D993 (SDG# 20051319, SAF# F05-023).

All QC controls are within the established limits.

Percent Solids – analyzed for organic moisture correction.

pH - See page 18 for QC details.

Organic Comments

- Sample results are moisture corrected and reported on dry weight basis.

PCBs – The hold time for this analysis was met. A Blank, Laboratory Control Sample, Matrix Spike and Matrix Spiked Duplicate were analyzed with each delivery group per the GRP Letter of Instruction. See pages 24 through 25 for QC details. Analytical Note:

- Preparation Date: 08-jul-2005.

All QC controls are within the established limits.

Semi-VOA – The hold time for this analysis was met. A Blank, Laboratory Control Sample, Matrix Spike and Matrix Spiked Duplicate were analyzed with each delivery group per the GRP Letter of Instruction. See pages 26 through 31 for QC details. Analytical Note:

- Preparation Date: 08-jul-2005.

TPHD-WA - The hold time for this analysis was met. A Blank, Laboratory Control Sample, Matrix Spike and Matrix Spiked Duplicate were analyzed with each delivery group per GRP Letter of Instruction. See page 32 for QC details. Analytical Note:

- Preparation Date: 08-jul-2005.

All QC controls are within the established limits.

VOA – The hold time for this analysis was met. A Blank, Laboratory Control Sample, Matrix Spike and Matrix Spiked Duplicate were analyzed with each delivery group per the GRP Letter of Instruction. See pages 33 through 36 for QC details. Analytical Note:

- Matrix Spike and Matrix Spike Duplicate QC samples were analyzed on sample# B1D992 (SDG# 20051295, SAF# F05-023).

All QC controls are within the established limits.

Radiochemistry Comments

RadChem – There are no hold times associated with WSCF's radiochemical methods. A Blank, Laboratory Control Sample and Duplicate were analyzed with each delivery group per the GRP Letter of Instruction. See pages 38 through 42 for QC details. Analytical Notes:

- GEA – Duplicate QC sample was analyzed on sample# B1DCK1 (SDG# 20051304, F05-026).
- Americium-241, Plutonium-238, Plutonium-239/240, Uranium-233/234, Uranium-235 and Uranium-238 – Duplicate QC samples were analyzed on sample# B1D992 (SDG# 20051295, SAF# F05-023).
- Uranium-235 and Uranium-238 – Duplicate Relative Percent Difference (RPD) was above established limits due to batch sample and duplicate were not homogeneous.

All other QC controls are within the established limits.

Plutonium-242, Americium-243 and Uranium-232 – Radiochemical Tracer Recovery Data are summarized below:

Radiochemical Tracer Percent Recovery			
Sample Number	Lab Sample ID	Isotope	Tracer Recovery (Percent)
<u>Americium-243</u>			
BLANK		Am-243	90.1%

Radiochemical Tracer Percent Recovery			
Sample Number	Lab Sample ID	Isotope	Tracer Recovery (Percent)
LCS		Am-243	99.6%
B1D992	W050001997	Am-243	90.7%
DUPLICATE	W050001997	Am-243	88.3%
B1D994	W050002028	Am-243	91.7%
<u>Plutonium-242</u>			
BLANK		Pu-242	81.9%
LCS		Pu-242	89.4%
B1D992	W050001997	Pu-242	78.6%
DUPLICATE	W050001997	Pu-242	83.9%
B1D994	W050002028	Pu-242	89.5%
<u>Srontium-85</u>			
BLANK		Sr-85	89.6%
LCS		Sr-85	94.1%
B1D994	W050002028	Sr-85	87.0%
DUPLICATE	W050002028	Sr-85	95.7%
<u>Uranium-232</u>			
BLANK		U-232	64.1%
LCS		U-232	71.3%
B1D992	W050001997	U-232	92.1%
DUPLICATE	W050001997	U-232	75.6%
B1D994	W050002028	U-232	82.0%

This Summary Report is in compliance with the SOW, both technically and for completeness.
Release of the data contained in this hard copy report has been authorized by the WSCF
Laboratory Analytical Manager and Client Services, as verified by the following signature.



Pauline D. Mix
WSCF Client Services

Abbreviations

Hg – mercury
IC – ion chromatography
ICP – inductively coupled plasma
ICP/AES – ICP/atomic emission spectroscopy
ICP/MS – ICP/mass spectrometry
Total U – total uranium
AT/TB – total alpha/total beta
AEA – Alpha Energy Analysis
WTPH-G – Total Hydrocarbons-Gasoline

Am – americium
Cm - curium
Pu – plutonium
Np – neptunium
GEA – gamma energy analysis
H3 – Tritium
Sr – Strontium 89, 90
WTPH-D – Total Hydrocarbons-Diesel
TSS – Total Suspended Solids

M8141-SLF-05-328

ATTACHMENT 2

ANALYTICAL RESULTS

**Consisting of 41 pages
Including cover page**

WSCF
ANALYTICAL RESULTS REPORT

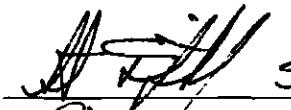
for

Groundwater Remediation Program

Richland, WA 99354

Attention: Steve Trent

Analytical:



S. Fitzgerald

Client Services:



G.W. P.O. Mts 7/27/2005

All results are reported on an "as received" basis unless otherwise noted in the comment section.

Confidentiality Notice: The information contained in this report is privileged and confidential information intended only for the use of the addressee. If the reader of this report is not the intended recipient, or the employee or agent responsible to deliver it to the intended recipient, you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited. If you have received this communication in error, please notify us immediately by telephone at (509) 373-7020.

Contract#: FH-EIS-2003-MEM-001

Report#: WSCF20051337

Report Date: 26-jul-2005

Report WGPP/ver. 1.1

Groundwater Remediation Program

Page 1

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent **Group #:** WSCF20051337
Project: F05-023: F05-023

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze Sample	Receive
Inorganic												
W05000202B	B1D994	TRENT	NH4-N	SOIL	LA-503-401	B	0.245	mg/kg	50.00	0.20	07/07/05 06/28/05 06/29/05	
W05000202B	B1D994	TRENT	TS	SOIL	LA-519-412		97.4	%	1.00	0.0	07/07/05 06/29/05 06/29/05	
W05000202B	B1D994	TRENT	PH	SOIL	LA-212-411		9.16	pH	1.00	0.010	07/08/05 06/29/05 06/29/05	
W05000202B	B1D994	TRENT	16984-48-8	SOIL	LA-533-410	U	< 1.15	mg/kg	50.00	1.2	07/07/05 06/29/05 06/29/05	
W05000202B	B1D994	TRENT	18887-00-8	SOIL	LA-533-410	U	< 2.60	mg/kg	50.00	2.6	07/07/05 06/29/05 06/29/05	
W05000202B	B1D994	TRENT	NO2-N	SOIL	LA-533-410	U	< 0.960	mg/kg	50.00	0.96	07/07/05 06/29/05 06/29/05	
W05000202B	B1D994	TRENT	NO3-N	SOIL	LA-533-410	U	< 0.850	mg/kg	50.00	0.86	07/07/05 06/29/05 06/29/05	
W05000202B	B1D994	TRENT	P04-P	SOIL	LA-533-410	U	< 2.70	mg/kg	50.00	2.7	07/07/05 06/29/05 06/29/05	
W05000202B	B1D994	TRENT	14808-79-8	SOIL	LA-533-410	U	< 5.00	mg/kg	50.00	5.0	07/07/05 06/29/05 06/29/05	
W05000202B	B1D994	TRENT	7440-69-9	SOIL	LA-505-411	U	< 1.08	mg/kg	49.30	1.1	07/18/05 06/29/05 06/29/05	
W05000202B	B1D994	TRENT	7723-14-0	SOIL	LA-505-411		451	mg/kg	49.30	2.4	07/18/05 06/29/05 06/29/05	
W05000202B	B1D994	TRENT	7440-02-0	SOIL	LA-505-412		12.7	mg/kg	1.04	0.10	07/07/05 06/29/05 06/29/05	
W05000202B	B1D994	TRENT	7440-22-4	SOIL	LA-505-412	U	< 0.104	mg/kg	1.04	0.10	07/07/05 06/29/05 06/29/05	
W05000202B	B1D994	TRENT	7440-39-3	SOIL	LA-505-412		48.9	mg/kg	1.04	4.2	07/07/05 06/29/05 06/29/05	
W05000202B	B1D994	TRENT	7440-43-9	SOIL	LA-505-412	U	< 0.104	mg/kg	1.04	0.10	07/07/05 06/29/05 06/29/05	
W05000202B	B1D994	TRENT	7440-47-3	SOIL	LA-505-412		10.2	mg/kg	1.04	4.2	07/07/05 06/29/05 06/29/05	
W05000202B	B1D994	TRENT	7440-50-8	SOIL	LA-505-412		8.07	mg/kg	1.04	2.1	07/07/05 06/29/05 06/29/05	
W05000202B	B1D994	TRENT	7439-92-1	SOIL	LA-505-412		3.01	mg/kg	1.04	0.21	07/07/05 06/29/05 06/29/05	
W05000202B	B1D994	TRENT	7439-97-6	SOIL	LA-505-412	U	< 0.104	mg/kg	1.04	0.10	07/07/05 06/29/05 06/29/05	
W05000202B	B1D994	TRENT	7440-81-1	SOIL	LA-505-412		0.300	mg/kg	1.04	0.10	07/07/05 06/29/05 06/29/05	
W05000202B	B1D994	TRENT	7440-38-2	SOIL	LA-505-412		2.45	mg/kg	1.04	0.42	07/07/05 06/29/05 06/29/05	
W05000202B	B1D994	TRENT	77B2-49-2	SOIL	LA-505-412	U	< 0.416	mg/kg	1.04	0.42	07/07/05 06/29/05 06/29/05	

MDL=Minimum Detection Limit

B - The analyte < the RDL but > = the IDL/MDL (inorganic)

U - Analyzed for but not detected above limiting criteris.

RQ=Result Qualifier

DF=Dilution Factor

* - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols

Report WGPP/ver. 1.1

Groundwater Remediation Program

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20051337
 Matrix: SOLID
 Test: Ammonia (N) by IC

SAF Number: F05-023
 Sample Date: 06/29/05
 Receive Date: 06/29/05

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
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Lab ID: W050002028

BATCH QC ASSOCIATED WITH SAMPLE

DUP	Ammonia (N) by IC	7664-41-7	3.67e-01	37.209	RPD	07/07/05	0.000	20.000	*
MS	Ammonia (N) by IC	7664-41-7	3.82e-01	95.146	% Recov	07/07/05	75.000	125.000	
MSD	Ammonia (N) by IC	7664-41-7	3.89e-01	84.417	% Recov	07/07/05	75.000	125.000	

BATCH QC

BLANK	Ammonia (N) by IC	7664-41-7	<4.00e-3	n/a	mg/L	07/07/05	0.000	30.000	U
BLANK	Ammonia (N) by IC	7664-41-7	<4.00e-3	n/a	mg/L	07/07/05	0.000	30.000	U
LCS	Ammonia (N) by IC	7664-41-7	7.77e+01	94.756	% Recov	07/07/05	80.000	120.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20051337

Matrix: SOLID

Test: Anions by Ion Chromatography

SAF Number: F05-023

Sample Date: 06/29/05

Receive Date: 06/29/05

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
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Lab ID: W050002028

BATCH QC ASSOCIATED WITH SAMPLE

DUP	Chloride	16887-00-6	<2.55e0	n/a	RPD	07/07/05	0.000	20.000	U
DUP	Fluoride	16984-48-8	<1.13e0	n/a	RPD	07/07/05	0.000	20.000	U
DUP	Nitrogen in Nitrite	NO2-N	<9.31e-1	n/a	RPD	07/07/05	0.000	20.000	U
DUP	Nitrogen in Nitrate	NO3-N	<6.37e-1	n/a	RPD	07/07/05	0.000	20.000	U
DUP	Phosphate (P) by IC	PO4-P	<2.65e0	n/a	RPD	07/07/05	0.000	20.000	U
DUP	Sulfate	14808-79-8	<4.90e0	n/a	RPD	07/07/05	0.000	20.000	U
MS	Chloride	16887-00-6	8.98e-01	99.800	% Recov	07/07/05	75.000	125.000	
MS	Fluoride	16984-48-8	4.61e-01	93.320	% Recov	07/07/05	75.000	125.000	
MS	Nitrogen in Nitrite	NO2-N	4.95e-01	99.000	% Recov	07/07/05	75.000	125.000	
MS	Nitrogen in Nitrate	NO3-N	4.51e-01	100.000	% Recov	07/07/05	75.000	125.000	
MS	Phosphate (P) by IC	PO4-P	7.94e-01	81.940	% Recov	07/07/05	75.000	125.000	
MS	Sulfate	14808-79-8	1.92e+00	96.000	% Recov	07/07/05	75.000	125.000	
MSD	Chloride	16887-00-6	9.32e-01	93.200	% Recov	07/07/05	75.000	125.000	
MSD	Fluoride	16984-48-8	4.48e-01	90.688	% Recov	07/07/05	75.000	125.000	
MSD	Nitrogen in Nitrite	NO2-N	4.53e-01	90.600	% Recov	07/07/05	75.000	125.000	
MSD	Nitrogen in Nitrate	NO3-N	4.31e-01	95.565	% Recov	07/07/05	75.000	125.000	
MSD	Phosphate (P) by IC	PO4-P	8.07e-01	83.282	% Recov	07/07/05	75.000	125.000	
MSD	Sulfate	14808-79-8	1.91e+00	95.500	% Recov	07/07/05	75.000	125.000	

BATCH QC

BLANK	Chloride	16887-00-6	<5.20e-2	n/a	mg/L	07/07/05	0.000	300.000	U
BLANK	Chloride	16887-00-6	<5.20e-2	n/a	mg/L	07/07/05	0.000	300.000	U
BLANK	Fluoride	16984-48-8	<2.30e-2	n/a	mg/L	07/07/05	0.000	300.000	U
BLANK	Fluoride	16984-48-8	<2.30e-2	n/a	mg/L	07/07/05	0.000	300.000	U
BLANK	Nitrogen in Nitrite	NO2-N	<1.90e-2	n/a	mg/L	07/07/05	0.000	300.000	U
BLANK	Nitrogen in Nitrite	NO2-N	<1.90e-2	n/a	mg/L	07/07/05	0.000	300.000	U

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20051337

Matrix: SOLID

Test: Anions by Ion Chromatography

SAF Number: F05-023

Sample Date:

Receive Date:

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
BLANK	Nitrogen in Nitrate	NO3-N	<1.30e-2	n/a	mg/L	07/07/05	0.000	300.000	U
BLANK	Nitrogen in Nitrate	NO3-N	<1.30e-2	n/a	mg/L	07/07/05	0.000	300.000	U
BLANK	Phosphate (P) by IC	PO4-P	<5.40e-2	n/a	mg/L	07/07/05	0.000	300.000	U
BLANK	Phosphate (P) by IC	PO4-P	<5.40e-2	n/a	mg/L	07/07/05	0.000	300.000	U
BLANK	Sulfate	14808-79-8	<1.00e-1	n/a	mg/L	07/07/05	0.000	300.000	U
BLANK	Sulfate	14808-79-8	<1.00e-1	n/e	mg/L	07/07/05	0.000	300.000	U
LCS	Chloride	16887-00-6	1.83e+02	91.500	% Recov	07/07/05	80.000	120.000	
LCS	Fluoride	16984-48-8	9.09e+01	90.900	% Recov	07/07/05	80.000	120.000	
LCS	Nitrogen in Nitrite	NO2-N	9.05e+01	90.500	% Recov	07/07/05	80.000	120.000	
LCS	Nitrogen in Nitrate	NO3-N	8.68e+01	95.374	% Recov	07/07/05	80.000	120.000	
LCS	Phosphate (P) by IC	PO4-P	1.76e+02	90.815	% Recov	07/07/06	80.000	120.000	
LCS	Sulfate	14808-79-8	3.77e+02	94.486	% Recov	07/07/05	80.000	120.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20051337

Matrix: SOLID

Test: ICP Metals Analysis, Grd H2O P

SAF Number: F05-023

Sample Date: 06/14/05

Receive Date: 06/15/05

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
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Lab ID: W050001783

BATCH QC ASSOCIATED WITH SAMPLE

MS	Bismuth	7440-69-9	83.1	83.939	% Recov	07/18/05	75.000	125.000	
MS	Phosphorus	7723-14-0	145	n/a	% Recov	07/18/05	70.000	130.000	
MSD	Bismuth	7440-69-9	83.5	84.343	% Recov	07/18/05	75.000	125.000	
MSD	Phosphorus	7723-14-0	147	n/a	% Recov	07/18/05	75.000	125.000	
SPK-RPD	Bismuth	7440-69-9	84.343	0.480	RPD	07/18/05	0.000	20.000	
SPK-RPD	Phosphorus	7723-14-0		n/a	RPD	07/18/05	0.000	20.000	

BATCH QC

BLANK	Bismuth	7440-69-9	2.2	2.200	ug/L	07/18/05			
BLANK	Phosphorus	7723-14-0	<4.8e-2	n/a	ug/L	07/18/05			U
LCS	Bismuth	7440-69-9	181	91.414	% Recov	07/18/05	80.000	120.000	
LCS	Phosphorus	7723-14-0	709	110.781	% Recov	07/18/05	78.000	123.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20051337

Matrix: SOLID

Test: ICP-2008 MS All possible metal

SAF Number: F05-023

Sample Date: 06/27/05

Receive Date: 06/27/05

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
Lab ID: W050002015									
BATCH QC ASSOCIATED WITH SAMPLE									
MS	Silver	7440-22-4	206.6	103.300	% Recov	07/07/05	70.000	130.000	
MS	Arsenic	7440-38-2	189.857	94.928	% Recov	07/07/05	70.000	130.000	
MS	Barium	7440-39-3	215.47	107.735	% Recov	07/07/05	70.000	130.000	
MS	Cadmium	7440-43-9	207.4785	103.739	% Recov	07/07/05	70.000	130.000	
MS	Chromium	7440-47-3	170.91	85.455	% Recov	07/07/05	70.000	130.000	
MS	Copper	7440-50-8	190.554	95.277	% Recov	07/07/05	70.000	130.000	
MS	Mercury	7439-97-6	1.9776	98.880	% Recov	07/07/05	70.000	130.000	
MS	Nickel	7440-02-0	188.46	93.230	% Recov	07/07/05	70.000	130.000	
MS	Lead	7439-92-1	209.683	104.846	% Recov	07/07/05	70.000	130.000	
MS	Selenium	7782-49-2	190.4	95.200	% Recov	07/07/05	70.000	130.000	
MS	Uranium	7440-61-1	204.8397	102.420	% Recov	07/07/05	70.000	130.000	
MSD	Silver	7440-22-4	199.4	99.700	% Recov	07/07/05	70.000	130.000	
MSD	Arsenic	7440-38-2	189.157	94.579	% Recov	07/07/05	70.000	130.000	
MSD	Barium	7440-39-3	212.47	106.235	% Recov	07/07/05	70.000	130.000	
MSD	Cadmium	7440-43-9	203.5785	101.789	% Recov	07/07/05	70.000	130.000	
MSD	Chromium	7440-47-3	170.61	85.305	% Recov	07/07/05	70.000	130.000	
MSD	Copper	7440-50-8	190.054	95.027	% Recov	07/07/05	70.000	130.000	
MSD	Mercury	7439-97-6	1.9576	97.880	% Recov	07/07/05	70.000	130.000	
MSD	Nickel	7440-02-0	185.36	92.680	% Recov	07/07/05	70.000	130.000	
MSD	Lead	7439-92-1	207.093	103.546	% Recov	07/07/05	70.000	130.000	
MSD	Selenium	7782-49-2	191.2	95.600	% Recov	07/07/05	70.000	130.000	
MSD	Uranium	7440-61-1	200.9397	100.470	% Recov	07/07/05	70.000	130.000	
SPK-RPD	Silver	7440-22-4	99.700	3.547	RPD	07/07/05	0.000	20.000	
SPK-RPD	Arsenic	7440-38-2	94.579	0.368	RPD	07/07/05	0.000	20.000	
SPK-RPD	Barium	7440-39-3	106.235	1.402	RPD	07/07/05	0.000	20.000	
SPK-RPD	Cadmium	7440-43-9	101.789	1.898	RPD	07/07/05	0.000	20.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20051337

Matrix: SOLID

Test: ICP-2008 MS All possible metal

SAF Number: F05-023

Sample Date: 06/27/05

Receive Date: 06/27/05

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
SPK-RPD	Chromium	7440-47-3	86.305	0.176	RPD	07/07/05	0.000	20.000	
SPK-RPD	Copper	7440-50-8	95.027	0.263	RPD	07/07/05	0.000	20.000	
SPK-RPD	Mercury	7439-97-6	97.880	1.016	RPD	07/07/05	0.000	20.000	
SPK-RPD	Nickel	7440-02-0	92.880	0.592	RPD	07/07/05	0.000	20.000	
SPK-RPD	Lead	7439-92-1	103.546	1.248	RPD	07/07/05	0.000	20.000	
SPK-RPD	Selenium	7782-49-2	95.600	0.419	RPD	07/07/05	0.000	20.000	
SPK-RPD	Uranium	7440-61-1	100.470	1.922	RPD	07/07/05	0.000	20.000	

BATCH QC

BLANK	Silver	7440-22-4	<0.1	n/a	ug/L	07/07/05		U	
BLANK	Arsenic	7440-38-2	<0.4	n/a	ug/L	07/07/05		U	
BLANK	Barium	7440-39-3	<4	n/a	ug/L	07/07/05		U	
BLANK	Cadmium	7440-43-9	<0.1	n/a	ug/L	07/07/05		U	
BLANK	Chromium	7440-47-3	<4	n/a	ug/L	07/07/05		U	
BLANK	Copper	7440-50-8	<2	n/a	ug/L	07/07/05		U	
BLANK	Mercury	7439-97-6	<0.1	n/a	ug/L	07/07/05		U	
BLANK	Nickel	7440-02-0	<0.1	n/a	ug/L	07/07/05		U	
BLANK	Lead	7439-92-1	<0.2	n/a	ug/L	07/07/05		U	
BLANK	Selenium	7782-49-2	<0.4	n/a	ug/L	07/07/05		U	
BLANK	Uranium	7440-61-1	<0.1	n/a	ug/L	07/07/05		U	
LCS	Silver	7440-22-4	148.4	114.154	% Recov	07/07/05	110.000	170.000	
LCS	Arsenic	7440-38-2	161	100.000	% Recov	07/07/05	82.000	142.000	
LCS	Barium	7440-39-3	252.5	100.198	% Recov	07/07/05	79.000	123.000	
LCS	Cadmium	7440-43-9	133.9	104.809	% Recov	07/07/05	88.000	127.000	
LCS	Chromium	7440-47-3	67.75	97.482	% Recov	07/07/05	50.000	126.000	
LCS	Copper	7440-50-8	144.1	97.365	% Recov	07/07/05	61.000	134.000	
LCS	Mercury	7439-97-6	16.33	98.627	% Recov	07/07/05	76.000	114.000	
LCS	Nickel	7440-02-0	153.7	104.558	% Recov	07/07/05	84.000	125.000	
LCS	Lead	7439-92-1	147.9	104.155	% Recov	07/07/05	87.000	120.000	
LCS	Selenium	7782-49-2	64.13	99.891	% Recov	07/07/05	83.000	145.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20051337

Matrix: SOLID

Test: ICP-2008 MS All possible metal

SAF Number: F05-023

Sample Date:

Receive Date:

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
LCS	Uranium	7440-61-1	414	103.500	% Recov	07/07/05	89.000	107.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20051337

Matrix: SOLID

Test: pH Soil and Waste Measurement

SAF Number: F05-023

Sample Date: 06/29/05

Receive Date: 06/29/05

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
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Lab ID: W050002028

BATCH QC ASSOCIATED WITH SAMPLE

DUP	pH Soil and Waste Measurement	PH	9.176	0.207	RPD	07/06/05	0.000	3.000	
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WSCF
ANALYTICAL RESULTS REPORT

Attention:
Project:

Steve Trent
FO5-023: FO5-023

Group #:

WSCF20051337

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze Sample Receive	
Organic												
W050002028	B1D994	TRENT	12674-11-2	Aroclor-1016	SOIL	LA-523-427	U	< 10.0	ug/kg	1.00	10	07/20/05 06/29/05 06/29/05
W050002028	B1D994	TRENT	11104-28-2	Aroclor-1221	SOIL	LA-523-427	U	< 20.0	ug/kg	1.00	20	07/20/05 06/29/05 06/29/05
W050002028	B1D994	TRENT	11141-16-5	Aroclor-1232	SOIL	LA-523-427	U	< 10.0	ug/kg	1.00	10	07/20/05 06/29/05 06/29/05
W050002028	B1D994	TRENT	53469-21-9	Aroclor-1242	SOIL	LA-523-427	U	< 10.0	ug/kg	1.00	10	07/20/05 06/29/05 06/29/05
W050002028	B1D994	TRENT	12672-29-6	Aroclor-1248	SOIL	LA-523-427	U	< 10.0	ug/kg	1.00	10	07/20/05 06/29/05 06/29/05
W050002028	B1D994	TRENT	11097-69-1	Aroclor-1254	SOIL	LA-523-427		39.0	ug/kg	1.00	10	07/20/05 06/29/05 06/29/05
W050002028	B1D994	TRENT	11096-82-5	Aroclor-1260	SOIL	LA-523-427	U	< 10.0	ug/kg	1.00	10	07/20/05 06/29/05 06/29/05
W050002028	B1D994	TRENT	37324-23-5	Aroclor-1262	SOIL	LA-523-427	U	< 10.0	ug/kg	1.00	10	07/20/05 06/29/05 06/29/05
W050002028	B1D994	TRENT	11100-14-4	Aroclor-1268	SOIL	LA-523-427	U	< 10.0	ug/kg	1.00	10	07/20/05 06/29/05 06/29/05
W050002028	B1D994	TRENT	100-02-7	4-Nitrophenol	SOIL	LA-523-456	U	< 88.0	ug/kg	1.00	88	07/20/05 06/29/05 06/29/05
W050002028	B1D994	TRENT	108-46-7	1,4-Dichlorobenzene	SOIL	LA-523-456	U	< 140	ug/kg	1.00	1.4e+02	07/20/05 06/29/05 06/29/05
W050002028	B1D994	TRENT	108-95-2	Phenol	SOIL	LA-523-456	U	< 70.0	ug/kg	1.00	70	07/20/05 06/29/05 06/29/05
W050002028	B1D994	TRENT	120-82-1	1,2,4-Trichlorobenzene	SOIL	LA-523-456	U	< 94.0	ug/kg	1.00	94	07/20/05 06/29/05 06/29/05
W050002028	B1D994	TRENT	121-14-2	2,4-Dinitrotoluene	SOIL	LA-523-456	U	< 55.0	ug/kg	1.00	55	07/20/05 06/29/05 06/29/05
W050002028	B1D994	TRENT	129-00-0	Pyrene	SOIL	LA-523-456	U	< 80.0	ug/kg	1.00	80	07/20/05 06/29/05 06/29/05
W050002028	B1D994	TRENT	59-50-7	4-Chloro-3-methylphenol	SOIL	LA-523-456	U	< 48.0	ug/kg	1.00	48	07/20/05 06/29/05 06/29/05
W050002028	B1D994	TRENT	621-84-7	N-Nitrosodi-n-dipropylamine	SOIL	LA-523-456	U	< 76.0	ug/kg	1.00	76	07/20/05 06/29/05 06/29/05
W050002028	B1D994	TRENT	83-32-9	Acenaphthene	SOIL	LA-523-458	U	< 70.0	ug/kg	1.00	70	07/20/05 06/29/05 06/29/05
W050002028	B1D994	TRENT	87-86-5	Pentachlorophenol	SOIL	LA-523-458	U	< 74.0	ug/kg	1.00	74	07/20/05 06/29/05 06/29/05
W050002028	B1D994	TRENT	95-57-8	2-Chlorophenol	SOIL	LA-523-456	U	< 78.0	ug/kg	1.00	78	07/20/05 06/29/05 06/29/05
W050002028	B1D994	TRENT	100-01-6	4-Nitroaniline	SOIL	LA-523-456	U	< 89.0	ug/kg	1.00	89	07/20/05 06/29/05 06/29/05
W050002028	B1D994	TRENT	101-55-3	4-Bromophenylphenyl ether	SOIL	LA-523-456	U	< 53.0	ug/kg	1.00	53	07/20/05 06/29/05 06/29/05
W050002028	B1D994	TRENT	105-67-9	2,4-Dimethylphenol	SOIL	LA-523-456	U	< 91.0	ug/kg	1.00	91	07/20/05 06/29/05 06/29/05
W050002028	B1D994	TRENT	106-47-8	4-Chloroaniline	SOIL	LA-523-456	U	< 150	ug/kg	1.00	1.5e+02	07/20/05 06/29/05 06/29/05
W050002028	B1D994	TRENT	108-60-1	Bis(2-chloro-1-methylethyl)ether	SOIL	LA-523-458	U	< 90.0	ug/kg	1.00	90	07/20/05 06/29/05 06/29/05
W050002028	B1D994	TRENT	111-44-4	Bis(2-chloroethyl) ether	SOIL	LA-523-456	U	< 100	ug/kg	1.00	1.0e+02	07/20/05 06/29/05 06/29/05

MDL = Minimum Detection Limit

8 - The analyte < the RDL but > = the IDL/MDL (inorganic)

U - Analyzed for but not detected above limiting criteria.

RQ = Result Qualifier

DF = Dilution Factor

* - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols

Report WGPP/ver. 1.1

Groundwater Remediation Program

WSCF

ANALYTICAL RESULTS REPORT

Attention: Steve Trent
Project: F05-023: F05-023

Group #: WSCF20051337

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF		Result	Unit	DF	MDL	Analyze Sample Receive	
					Method	RQ						
W05000202B	B1D994	TRENT	111-91-1	Blis(2-Chloroethoxy)methane	SOIL	LA-523-456	U	< 83.0	ug/kg	1.00	63	07/20/05 06/29/05 06/29/05
W05000202B	B1D994	TRENT	117-81-7	Biis(2-ethylhexyl) phthalate	SOIL	LA-523-456	U	< 73.0	ug/kg	1.00	73	07/20/05 06/29/05 06/29/05
W05000202B	B1D994	TRENT	117-84-0	Di-n-octylphthalate	SOIL	LA-523-456	U	< 87.0	ug/kg	1.00	87	07/20/05 06/29/05 06/29/05
W05000202B	B1D994	TRENT	118-74-1	Hexachlorobenzene	SOIL	LA-523-456	U	< 70.0	ug/kg	1.00	70	07/20/05 06/29/05 06/29/05
W05000202B	B1D994	TRENT	120-12-7	Anthracene	SOIL	LA-523-456	U	< 79.0	ug/kg	1.00	79	07/20/05 06/28/05 06/29/05
W05000202B	B1D994	TRENT	120-83-2	2,4-Dichlorophenol	SOIL	LA-523-456	U	< 48.0	ug/kg	1.00	46	07/20/05 06/29/05 06/29/05
W05000202B	B1D994	TRENT	131-11-3	Dimethyl phthalate	SOIL	LA-523-456	U	< 66.0	ug/kg	1.00	66	07/20/05 06/29/05 06/29/05
W05000202B	B1D994	TRENT	132-84-9	Dibenzofuran	SOIL	LA-523-456	U	< 63.0	ug/kg	1.00	63	07/20/05 06/29/05 06/29/05
W05000202B	B1D994	TRENT	191-24-2	Benzo(ghi)perylene	SOIL	LA-523-456	U	< 79.0	ug/kg	1.00	79	07/20/05 06/29/05 06/29/05
W05000202B	B1D994	TRENT	193-39-5	Indeno[1,2,3-cd]pyrene	SOIL	LA-523-456	U	< 84.0	ug/kg	1.00	84	07/20/05 06/29/05 06/29/05
W05000202B	B1D994	TRENT	205-99-2	Benzo(b)fluoranthene	SOIL	LA-523-456	U	< 78.0	ug/kg	1.00	78	07/20/05 06/29/05 06/29/05
W05000202B	B1D994	TRENT	206-44-0	Fluoranthene	SOIL	LA-523-456	U	< 82.0	ug/kg	1.00	82	07/20/05 06/29/05 06/29/05
W05000202B	B1D994	TRENT	207-08-9	Benzo(k)fluoranthene	SOIL	LA-523-456	U	< 55.0	ug/kg	1.00	55	07/20/05 06/29/05 06/29/05
W05000202B	B1D994	TRENT	208-98-8	Acenaphthylene	SOIL	LA-523-456	U	< 75.0	ug/kg	1.00	75	07/20/05 06/29/05 06/29/05
W05000202B	B1D994	TRENT	218-01-9	Chrysene	SOIL	LA-523-456	U	< 72.0	ug/kg	1.00	72	07/20/05 06/29/05 06/29/05
W05000202B	B1D994	TRENT	50-32-8	Benzo(a)pyrene	SOIL	LA-523-456	U	< 62.0	ug/kg	1.00	62	07/20/05 06/29/05 06/29/05
W05000202B	B1D994	TRENT	51-28-5	2,4-Dinitrophenol	SOIL	LA-523-456	U	< 180	ug/kg	1.00	1.8e+02	07/20/05 06/29/05 06/29/05
W05000202B	B1D994	TRENT	53-70-3	Dibenz[a,h]anthracene	SOIL	LA-523-456	U	< 98.0	ug/kg	1.00	96	07/20/05 06/29/05 06/29/05
W05000202B	B1D994	TRENT	534-52-1	4,6-Dinitro-2-methylphenol	SOIL	LA-523-456	U	< 130	ug/kg	1.00	1.3e+02	07/20/05 06/29/05 06/29/05
W05000202B	B1D994	TRENT	541-73-1	1,3-Dichlorobenzene	SOIL	LA-523-456	U	< 180	ug/kg	1.00	1.8e+02	07/20/05 06/29/05 06/29/05
W05000202B	B1D994	TRENT	56-55-3	Benzo(a)anthracene	SOIL	LA-523-456	U	< 65.0	ug/kg	1.00	65	07/20/05 06/29/05 06/29/05
W05000202B	B1D994	TRENT	606-20-2	2,6-Dinitrotoluene	SOIL	LA-523-456	U	< 70.0	ug/kg	1.00	70	07/20/05 06/29/05 06/29/05
W05000202B	B1D994	TRENT	7006-72-3	4-Chlorophenylphenyl ether	SOIL	LA-523-456	U	< 53.0	ug/kg	1.00	53	07/20/05 06/29/05 06/29/05
W05000202B	B1D994	TRENT	77-47-4	Hexachlorocyclopentadiene	SOIL	LA-523-456	U	< 170	ug/kg	1.00	1.7e+02	07/20/05 06/29/05 06/29/05
W05000202B	B1D994	TRENT	78-59-1	Isophorone	SOIL	LA-523-456	U	< 86.0	ug/kg	1.00	85	07/20/05 06/29/05 06/29/05
W05000202B	B1D994	TRENT	84-66-2	Diethylphthalate	SOIL	LA-523-456	U	< 140	ug/kg	1.00	1.4e+02	07/20/05 06/29/05 06/29/05
W05000202B	B1D994	TRENT	84-74-2	Di-n-butylphthalate	SOIL	LA-523-456		340	ug/kg	1.00	1.7e+02	07/20/05 06/29/05 06/29/05

MDL=Minimum Detection Limit

U - The analyte < the RDL but > = the IDL/MDL (inorganic)

U - Analyzed for but not detected above limiting criteria.

RQ=Result Qualifier

DF=Dilution Factor

* - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols

Report WGPP/ver. 1.1

Groundwater Remediation Program

WSCF

ANALYTICAL RESULTS REPORT

Attention: Project:		Steve Trent F05-023: F05-023				Group #:			WSCF20051337			
Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze Sample	Receive
W050002028	B1D994	TRENT	86-01-8	Phenanthrene	SOIL	LA-523-456	U	< 72.0	ug/kg	1.00	72	07/20/05 06/29/05 06/29/05
W050002028	B1D994	TRENT	86-68-7	Butylbenzylphthalate	SOIL	LA-523-456	U	< 76.0	ug/kg	1.00	76	07/20/05 06/29/05 06/29/05
W050002028	B1D994	TRENT	86-30-6	N-Nitrosodiphenylamine	SOIL	LA-523-456	U	< 74.0	ug/kg	1.00	74	07/20/05 06/29/05 06/29/05
W050002028	B1D994	TRENT	86-73-7	Fluorene	SOIL	LA-523-456	U	< 70.0	ug/kg	1.00	70	07/20/05 06/29/05 06/29/05
W050002028	B1D994	TRENT	86-74-8	Carbazole	SOIL	LA-523-456	U	< 80.0	ug/kg	1.00	80	07/20/05 06/29/05 06/29/05
W050002028	B1D994	TRENT	87-68-3	Hexachlorobutadiene	SOIL	LA-523-456	U	< 85.0	ug/kg	1.00	85	07/20/05 06/29/05 06/29/05
W050002028	B1D994	TRENT	88-74-4	2-Nitroaniline	SOIL	LA-523-456	U	< 53.0	ug/kg	1.00	53	07/20/05 06/29/05 06/29/05
W050002028	B1D994	TRENT	88-75-5	2-Nitrophenol	SOIL	LA-523-456	U	< 93.0	ug/kg	1.00	93	07/20/05 06/29/05 06/29/05
W050002028	B1D994	TRENT	91-20-3	Naphthalene	SOIL	LA-523-456	U	< 84.0	ug/kg	1.00	84	07/20/05 06/29/05 06/29/05
W050002028	B1D994	TRENT	91-57-6	2-Methylnaphthalene	SOIL	LA-523-456	U	< 76.0	ug/kg	1.00	76	07/20/05 06/29/05 06/29/05
W050002028	B1D994	TRENT	91-58-7	2-Chloronaphthalene	SOIL	LA-523-456	U	< 67.0	ug/kg	1.00	67	07/20/05 06/29/05 06/29/05
W050002028	B1D994	TRENT	91-94-1	3,3'-Dichlorobenzidine	SOIL	LA-523-456	U	< 200	ug/kg	1.00	2.0e+02	07/20/05 06/29/05 06/29/05
W050002028	B1D994	TRENT	95-48-7	2-Methylphenol (cresol, o-)	SOIL	LA-523-456	U	< 83.0	ug/kg	1.00	83	07/20/05 06/29/05 06/29/05
W050002028	B1D994	TRENT	95-50-1	1,2-Dichlorobenzene	SOIL	LA-523-456	U	< 130	ug/kg	1.00	1.3e+02	07/20/05 06/29/05 06/29/05
W050002028	B1D994	TRENT	95-95-4	2,4,5-Trichlorophenol	SOIL	LA-523-456	U	< 46.0	ug/kg	1.00	46	07/20/05 06/29/05 06/29/05
W050002028	B1D994	TRENT	98-95-3	Nitrobenzene	SOIL	LA-523-456	U	< 85.0	ug/kg	1.00	85	07/20/05 06/29/05 06/29/05
W050002028	B1D994	TRENT	99-09-2	3-Nitroaniline	SOIL	LA-523-456	U	< 59.0	ug/kg	1.00	59	07/20/05 06/29/05 06/29/05
W050002028	B1D994	TRENT	66794-96-9	3 & 4 Methylphenol Total	SOIL	LA-523-456	U	< 110	ug/kg	1.00	1.1e+02	07/20/05 06/29/05 06/29/05
W060002028	B1D994	TRENT	67-72-1	Hexachloroethane	SOIL	LA-523-456	U	< 120	ug/kg	1.00	1.2e+02	07/20/05 06/29/05 06/29/05
W050002028	B1D994	TRENT	88-06-2	2,4,6-Trichlorophanol	SOIL	LA-523-456	U	< 43.0	ug/kg	1.00	43	07/20/05 06/29/05 06/29/05
W050002028	B1D994	TRENT	124-18-5	Decane	SOIL	LA-523-456	U	< 180	ug/kg	1.00	1.8e+02	07/20/05 06/29/05 06/29/05
W050002028	B1D994	TRENT	100-51-6	Benzyl alcohol	SOIL	LA-523-456	U	< 58.0	ug/kg	1.00	58	07/20/05 06/29/05 06/29/05
W050002028	B1D994	TRENT	111-76-2	2-Butoxyethanol	SOIL	LA-523-456	U	< 85.0	ug/kg	1.00	85	07/20/05 06/29/05 06/29/05
W050002028	B1D994	TRENT	126-73-8	Tributyl phosphate	SOIL	LA-523-456	U	< 72.0	ug/kg	1.00	72	07/20/05 06/29/05 06/29/05
W050002028	B1D994	TRENT	91-59-8	2-Naphthylamine	SOIL	LA-523-456	U	< 170	ug/kg	1.00	1.7e+02	07/20/05 06/29/05 06/29/05
W050002028	B1D994	TRENT	108-94-1	Cyclohexanone	SOIL	LA-523-456	U	< 89.0	ug/kg	1.00	89	07/20/05 06/29/05 06/29/05
W050002028	B1D994	TRENT	110-86-1	Pyridine	SOIL	LA-523-456	U	< 97.0	ug/kg	1.00	97	07/20/05 06/29/05 06/29/05

MDL=Minimum Detection Limit

8 - The analyte < the RDL but > = the IDL/MDL (inorganic)

U - Analyzed for but not detected above limiting criteria.

RQ=Result Qualifier

DF=Dilution Factor

* - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols

Report WGPP/ver. 1.1

Groundwater Remediation Program

WSCF

ANALYTICAL RESULTS REPORT

Attention:
Project:

Steve Trent
F05-023: F05-023

Group #: WSCF20051337

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF		Result	Unit	DF	MDL	Analyze Sample	Receive
					Method	RQ						
W050002028	B1D994	TRENT	95-63-6	SOIL	LA-523-456	U	< 150	ug/kg	1.00	1.5e+02	07/20/05	06/29/05 08/29/05
W050002028	B1D994	TRENT	75-35-4	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	07/06/05	06/29/05 08/29/05
W050002028	B1D994	TRENT	79-01-6	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	07/06/05	06/29/05 08/29/05
W050002028	B1D994	TRENT	71-43-2	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	07/06/05	06/29/05 08/29/05
W050002028	B1D994	TRENT	108-88-3	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	07/06/05	06/29/05 08/29/05
W050002028	B1D994	TRENT	108-90-7	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	07/06/05	06/29/05 08/29/05
W050002028	B1D994	TRENT	75-34-3	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	07/06/05	06/29/05 08/29/05
W050002028	B1D994	TRENT	100-41-4	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	07/06/05	06/29/05 08/29/05
W050002028	B1D994	TRENT	100-42-5	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	07/06/05	06/29/05 08/29/05
W050002028	B1D994	TRENT	10061-01-5	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	07/06/05	06/29/05 08/29/05
W050002028	B1D994	TRENT	10061-02-8	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	07/06/05	06/29/05 08/29/05
W050002028	B1D994	TRENT	107-08-2	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	07/06/05	06/29/05 08/29/05
W050002028	B1D994	TRENT	108-10-1	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	07/06/05	06/29/05 08/29/05
W050002028	B1D994	TRENT	124-48-1	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	07/06/05	06/29/05 08/29/05
W050002028	B1D994	TRENT	127-18-4	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	07/06/05	06/29/05 08/29/05
W050002028	B1D994	TRENT	1330-20-7	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	07/06/05	06/29/05 08/29/05
W050002028	B1D994	TRENT	540-59-0	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	07/06/05	06/29/05 08/29/05
W050002028	B1D994	TRENT	58-23-5	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	07/06/05	06/29/05 08/29/05
W050002028	B1D994	TRENT	591-78-6	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	07/06/05	06/29/05 08/29/05
W050002028	B1D994	TRENT	67-84-1	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	07/06/05	06/29/05 08/29/05
W050002028	B1D994	TRENT	67-68-3	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	07/06/05	06/29/05 08/29/05
W050002028	B1D994	TRENT	71-55-6	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	07/06/05	06/29/05 08/29/05
W050002028	B1D994	TRENT	74-83-9	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	07/06/05	06/29/05 08/29/05
W050002028	B1D994	TRENT	74-87-3	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	07/06/05	06/29/05 08/29/05
W050002028	B1D994	TRENT	75-00-3	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	07/06/05	06/29/05 08/29/05
W050002028	B1D994	TRENT	75-01-4	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	07/06/05	06/29/05 08/29/05
W050002028	B1D994	TRENT	75-09-2	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	07/06/05	06/29/05 08/29/05

MDL=Minimum Detection Limit

B - The analyte < the RDL but > = the IDL/MDL (inorganic)

U - Analyzed for but not detected above limiting criteria.

RQ=Result Qualifier

DF=Dilution Factor

* - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols

Report WGPP/ver. 1.1

Groundwater Remediation Program

WSCF

ANALYTICAL RESULTS REPORT

Attention: Project:		Steve Trent F05-023: F05-023						Group #:		WSCF20051337		
Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze Sample	Receive
W050002028	B1D994	TRENT	75-15-0	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	07/06/05	06/29/05 06/29/05
W050002028	B1D994	TRENT	75-26-2	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	07/06/05	06/29/05 06/29/05
W050002028	B1D994	TRENT	75-27-4	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	07/06/06	06/29/05 06/29/05
W050002028	B1D994	TRENT	78-87-5	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	07/06/05	06/29/05 06/29/05
W050002028	B1D994	TRENT	78-93-3	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	07/06/05	06/29/05 06/29/05
W050002028	B1D994	TRENT	79-00-5	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	07/06/05	06/29/05 06/29/05
W050002028	B1D994	TRENT	79-34-5	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	07/06/05	06/29/05 06/29/06
W050002028	B1D994	TRENT	71-38-3	SOIL	LA-523-455	U	< 41.0	ug/kg	1.00	41	07/06/05	06/29/05 06/29/05
W050002028	B1D994	TRENT	107-87-9	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	07/06/05	06/29/05 06/29/05
W050002028	B1D994	TRENT	110-82-7	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	07/06/05	06/29/05 06/29/06
W050002028	B1D994	TRENT	110-54-3	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	07/06/05	06/29/05 06/29/05
W050002028	B1D994	TRENT	109-99-9	SOIL	LA-523-455	U	< 4.10	ug/kg	1.00	4.1	07/06/06	06/29/05 06/29/05
W050002028	B1D994	TRENT	75-69-4	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	07/06/05	06/29/05 06/29/05
W050002028	B1D994	TRENT	104-51-8	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	07/06/05	06/29/05 06/29/05
W050002028	B1D994	TRENT	156-60-5	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	07/06/05	06/29/05 06/29/05
W050002028	B1D994	TRENT	75-05-8	SOIL	LA-523-455	U	< 4.10	ug/kg	1.00	4.1	07/06/05	06/29/05 06/29/05
W050002028	B1D994	TRENT	156-59-2	SOIL	LA-523-455	U	< 2.10	ug/kg	1.00	2.1	07/06/05	06/29/05 06/29/05
W050002028	B1D994	TRENT	TPHDIESEL	SOIL	NWTPH	U	< 3.80e+03	ug/kg	1.00	3.8e+03	07/21/05	06/29/05 06/29/05
W050002028	B1D994	TRENT	TPHKEROSENE	SOIL	NWTPH	U	< 3.80e+03	ug/kg	1.00	3.8e+03	07/21/05	06/29/05 06/29/05

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Groundwater Remediation Program

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WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20051337
 Matrix: SOLID
 Test: PCBs complete list

SAF Number: F05-023
 Sample Date: 06/29/05
 Receive Date: 06/29/05

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
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Lab ID: W050002028

BATCH QC ASSOCIATED WITH SAMPLE

MS	Aroclor-1260	11096-82-5	246.77	121.000	% Recov	07/20/05	75.000	125.000	
MS	Decachlorobiphenyl	2051-24-3	214.98	105.000	% Recov	07/20/05	50.000	150.000	
MS	Tetrachloro-m-xylene	877-09-8	207.80	101.000	% Recov	07/20/05	50.000	150.000	
MSD	Aroclor-1260	11096-82-5	221.89	109.000	% Recov	07/20/05	75.000	125.000	
MSD	Decachlorobiphenyl	2051-24-3	181.45	89.100	% Recov	07/20/05	50.000	150.000	
MSD	Tetrachloro-m-xylene	877-09-8	190.29	93.400	% Recov	07/20/05	50.000	150.000	
SPK-RPD	Aroclor-1260	11096-82-5	108.000	10.435	RPD	07/20/05	0.000	25.000	
SPK-RPD	Decachlorobiphenyl	2051-24-3	88.100	16.383	RPD	07/20/05	0.000	20.000	
SPK-RPD	Tetrachloro-m-xylene	877-09-8	93.400	7.819	RPD	07/20/05	0.000	20.000	
SURR	Decachlorobiphenyl	2051-24-3	198.58	98.200	% Recov	07/20/05	50.000	150.000	
SURR	Tetrachloro-m-xylene	877-09-8	190.83	93.400	% Recov	07/20/05	50.000	150.000	

BATCH QC

BLANK	Aroclor-1016	12674-11-2	< 10	n/a	UGKG	07/20/05		U	
BLANK	Aroclor-1221	11104-28-2	< 20	n/a	ug/Kg	07/20/05		U	
BLANK	Aroclor-1232	11141-16-5	< 10	n/a	ug/Kg	07/20/05		U	
BLANK	Aroclor-1242	53469-21-9	< 10	n/a	ug/Kg	07/20/05		U	
BLANK	Aroclor-1248	12672-29-6	< 10	n/a	ug/Kg	07/20/05		U	
BLANK	Aroclor-1254	11097-69-1	< 10	n/a	ug/Kg	07/20/05		U	
BLANK	Aroclor-1260	11096-82-5	< 10	n/a	ug/Kg	07/20/05		U	
BLANK	Aroclor-1262	37324-23-5	< 10	n/a	ug/Kg	07/20/05		U	
BLANK	Aroclor-1268	11100-14-4	< 10	n/a	ug/Kg	07/20/05		U	
BLANK	Decachlorobiphenyl	2051-24-3	185.88	92.900	% Recov	07/20/05	50.000	150.000	
BLANK	Tetrachloro-m-xylene	877-09-8	184.40	92.200	% Recov	07/20/05	50.000	150.000	
LCS	Aroclor-1260	11096-82-5	221.90	111.000	% Recov	07/20/05	70.000	130.000	
LCS	Decachlorobiphenyl	2051-24-3	189.02	94.500	% Recov	07/20/05	50.000	150.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20051337
Matrix: SOLID
Test: PCBs complete list

SAF Number: F05-023
Sample Date:
Receive Date:

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
LCS	Tetrachloro-m-xylene	877-09-8	189.92	95.000	% Recov	07/20/05	50.000	150.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20051337
 Matrix: SOLID
 Test: SW-846 8270C Semi-Vols

SAF Number: F05-023
 Sample Date: 06/29/05
 Receive Date: 06/29/05

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
Lab ID: W050002028									
BATCH QC ASSOCIATED WITH SAMPLE									
MS	1,2,4-Trichlorobenzene	120-82-1	1126.1	82.800	% Recov	07/20/05	46.000	107.000	
MS	1,4-Dichlorobenzene	106-46-7	982.79	72.200	% Recov	07/20/05	30.000	96.000	
MS	2,4-Dinitrotoluene	121-14-2	1124.5	82.600	% Recov	07/20/05	59.000	106.000	
MS	2-Fluorophenol	367-12-4	1283.8	94.400	% Recov	07/20/05	42.000	105.000	
MS	Acenaphthene	83-32-8	1130.8	83.100	% Recov	07/20/05	61.000	116.000	
MS	4-Chloro-3-methylphenol	59-50-7	1760.9	86.300	% Recov	07/20/05	61.000	106.000	
MS	2-Chlorophenol	95-57-8	1728.2	84.700	% Recov	07/20/05	66.000	106.000	
MS	N-Nitrosodi-n-dipropylamine	621-64-7	1179.4	86.700	% Recov	07/20/05	71.000	114.000	
MS	2-Fluorobiphenyl	321-60-8	1175.7	86.400	% Recov	07/20/05	56.000	122.000	
MS	Phenol	108-95-2	1785.1	87.500	% Recov	07/20/05	42.000	111.000	
MS	Nitrobenzene-d5	4185-60-0	1184.8	85.600	% Recov	07/20/05	64.000	111.000	
MS	4-Nitrophenol	100-02-7	1658.4	81.300	% Recov	07/20/05	32.000	118.000	
MS	Pentachlorophenol	87-86-5	1399.6	68.800	% Recov	07/20/05	62.000	114.000	
MS	Phenol-d5	4185-62-2	1195.9	87.900	% Recov	07/20/05	54.000	120.000	
MS	Pyrene	129-00-0	1150.9	84.600	% Recov	07/20/05	66.000	118.000	
MS	2,4,8-Tribromophenol	118-79-6	1202.2	88.400	% Recov	07/20/05	24.000	122.000	
MS	Terphenyl-d14 (7Cl)	98904-43-9	1210.6	89.000	% Recov	07/20/05	35.000	150.000	
MSD	1,2,4-Trichlorobenzene	120-82-1	1150.4	84.500	% Recov	07/20/05	48.000	107.000	
MSD	1,4-Dichlorobenzene	106-46-7	1024.8	75.300	% Recov	07/20/05	30.000	96.000	
MSD	2,4-Dinitrotoluene	121-14-2	1145.0	84.100	% Recov	07/20/05	59.000	106.000	
MSD	2-Fluorophenol	367-12-4	1349.5	99.100	% Recov	07/20/05	42.000	105.000	
MSD	Acenaphthene	83-32-8	1151.5	84.600	% Recov	07/20/05	61.000	116.000	
MSD	4-Chloro-3-methylphenol	59-50-7	1775.6	86.900	% Recov	07/20/05	61.000	106.000	
MSD	2-Chlorophenol	95-57-8	1769.2	86.600	% Recov	07/20/05	66.000	106.000	
MSD	N-Nitrosodi-n-dipropylamine	621-64-7	1201.4	88.200	% Recov	07/20/05	71.000	114.000	
MSD	2-Fluorobiphenyl	321-60-8	1182.3	86.800	% Recov	07/20/05	56.000	122.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20051337
 Matrix: SOLID
 Test: SW-846 8270C Semi-Vols

SAF Number: F05-023
 Sample Date: 06/29/05
 Receive Date: 06/29/05

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
MSD	Phenol	108-95-2	1817.9	89.000	% Recov	07/20/05	42.000	111.000	
MSD	Nitrobenzene-d5	4165-60-0	1192.2	87.500	% Recov	07/20/05	64.000	111.000	
MSD	4-Nitrophenol	100-02-7	1675.7	82.000	% Recov	07/20/05	32.000	118.000	
MSD	Pentachlorophenol	87-88-5	1535.4	75.200	% Recov	07/20/05	62.000	114.000	
MSD	Phenol-d5	4165-62-2	1228.0	90.200	% Recov	07/20/05	54.000	120.000	
MSD	Pyrene	129-00-0	1189.1	87.300	% Recov	07/20/05	68.000	118.000	
MSD	2,4,6-Tribromophenol	118-79-6	1220.9	89.700	% Recov	07/20/05	24.000	122.000	
MSD	Terphenyl-d14 (7Cl)	98904-43-9	1230.4	90.400	% Recov	07/20/05	35.000	150.000	
SPK-RPD	1,2,4-Trichlorobenzene	120-82-1	84.500	2.032	RPD	07/20/05	0.000	20.000	
SPK-RPD	1,4-Dichlorobenzene	106-48-7	75.300	4.203	RPD	07/20/05	0.000	20.000	
SPK-RPD	2,4-Dinitrotoluene	121-14-2	84.100	1.800	RPD	07/20/05	0.000	20.000	
SPK-RPD	2-Fluorophenol	367-12-4	99.100	4.858	RPD	07/20/05	0.000	20.000	
SPK-RPD	Acenaphthene	83-32-9	84.800	1.789	RPD	07/20/05	0.000	20.000	
SPK-RPD	4-Chloro-3-methylphenol	59-50-7	86.900	0.893	RPD	07/20/05	0.000	20.000	
SPK-RPD	2-Chlorophenol	95-57-8	86.600	2.218	RPD	07/20/05	0.000	20.000	
SPK-RPD	N-Nitrosodi-n-propylamine	621-64-7	88.200	1.715	RPD	07/20/05	0.000	20.000	
SPK-RPD	2-Fluorobiphenyl	321-80-8	86.800	0.462	RPD	07/20/05	0.000	20.000	
SPK-RPD	Phenol	108-95-2	89.000	1.700	RPD	07/20/05	0.000	20.000	
SPK-RPD	Nitrobenzene-d5	4165-60-0	87.500	2.195	RPD	07/20/05	0.000	20.000	
SPK-RPD	4-Nitrophenol	100-02-7	82.000	0.857	RPD	07/20/05	0.000	20.000	
SPK-RPD	Pentachlorophenol	87-88-5	75.200	9.179	RPD	07/20/05	0.000	20.000	
SPK-RPD	Phenol-d5	4165-62-2	90.200	2.583	RPD	07/20/05	0.000	20.000	
SPK-RPD	Pyrene	129-00-0	87.300	3.141	RPD	07/20/05	0.000	20.000	
SPK-RPD	2,4,6-Tribromophenol	118-79-6	89.700	1.460	RPD	07/20/05	0.000	20.000	
SPK-RPD	Terphenyl-d14 (7Cl)	98904-43-9	90.400	1.561	RPD	07/20/05	0.000	20.000	
SURR	2-Fluorophenol	367-12-4	1207.7	88.400	% Recov	07/20/05	42.000	105.000	
SURR	2-Fluorobiphenyl	321-80-8	1105.4	80.900	% Recov	07/20/05	56.000	122.000	
SURR	Nitrobenzene-d5	4165-60-0	1100.8	80.800	% Recov	07/20/05	64.000	111.000	
SURR	Phenol-d5	4165-62-2	1137.1	83.300	% Recov	07/20/05	54.000	120.000	
SURR	2,4,6-Tribromophenol	118-79-6	1033.8	75.700	% Recov	07/20/05	24.000	122.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20051337
 Matrix: SOLID
 Test: SW-846 8270C Semi-Vols

SAF Number: F05-023
 Sample Date: 06/29/05
 Receive Date: 06/29/05

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
SURR	Terphenyl-d14 (7Cl)	98904-43-9	1150.0	84.200	% Recov	07/20/05	35.000	150.000	
BATCH QC									
BLANK	1,2-Dichlorobenzene	95-50-1	< 130	n/a	ug/Kg	07/20/05			U
BLANK	1,2,4-Trimethylbenzene	95-63-6	< 160	n/a	ug/Kg	07/20/05			U
BLANK	1,2,4-Trichlorobenzene	120-82-1	< 91	n/a	ug/Kg	07/20/05			U
BLANK	1,3-Dichlorobenzene	541-73-1	< 160	n/a	ug/Kg	07/20/05			U
BLANK	1,4-Dichlorobenzene	106-46-7	< 130	n/a	ug/Kg	07/20/05			U
BLANK	2-Naphthylamine	91-59-8	< 170	n/a	ug/Kg	07/20/05			U
BLANK	2,4-Dichlorophenol	120-83-2	< 45	n/a	ug/Kg	07/20/05			U
BLANK	2,4-Dinitrotoluene	121-14-2	< 54	n/a	ug/Kg	07/20/05			U
BLANK	2,4,5-Trichlorophenol	95-95-4	< 46	n/a	ug/Kg	07/20/05			U
BLANK	2,4,6-Trichlorophenol	88-06-2	< 42	n/a	ug/Kg	07/20/05			U
BLANK	2,4-Dimethylphenol	105-67-9	< 89	n/a	ug/Kg	07/20/05			U
BLANK	2,6-Dinitrotoluene	606-20-2	< 69	n/a	ug/Kg	07/20/05			U
BLANK	2-Butoxyethanol	111-78-2	< 83	n/a	ug/Kg	07/20/05			U
BLANK	2-Chloronaphthalene	91-58-7	< 85	n/a	ug/Kg	07/20/05			U
BLANK	2-Fluorophenol	367-12-4	1076.2	80.700	% Recov	07/20/05	42.000	105.000	
BLANK	2-Methylnaphthalene	91-57-8	< 76	n/a	ug/Kg	07/20/05			U
BLANK	2-Methylphenol (cresol, o-)	95-48-7	< 81	n/a	ug/Kg	07/20/05			U
BLANK	2-Nitroaniline	88-74-4	< 51	n/a	ug/Kg	07/20/05			U
BLANK	2-Nitrophenol	88-76-5	< 91	n/a	ug/Kg	07/20/05			U
BLANK	3 & 4 Methylphenol Total	65794-98-9	< 100	n/a	ug/Kg	07/20/05			U
BLANK	3-Nitroaniline	99-09-2	< 58	n/a	ug/Kg	07/20/05			U
BLANK	4,6-Dinitro-2-methylphenol	534-52-1	< 130	n/a	ug/Kg	07/20/05			U
BLANK	4-Bromophenylphenyl ether	101-55-3	< 51	n/a	ug/Kg	07/20/05			U
BLANK	4-Chlorophenylphenyl ether	7005-72-3	< 51	n/a	ug/Kg	07/20/06			U
BLANK	Acenaphthene	83-32-9	< 68	n/a	ug/Kg	07/20/05			U
BLANK	Acenaphthylene	208-96-8	< 73	n/a	ug/Kg	07/20/05			U
BLANK	Anthracene	120-12-7	< 77	n/a	ug/Kg	07/20/05			U

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20051337
 Matrix: SOLID
 Test: SW-846 8270C Semi-Vols

SAF Number: F05-023
 Sample Date:
 Receive Date:

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
BLANK	Bis(2-chloroethyl) ether	111-44-4	< 100	n/a	ug/Kg	07/20/05			U
BLANK	Benzo(a)anthracene	56-55-3	< 63	n/a	ug/Kg	07/20/05			U
BLANK	Benzo(b)fluoranthene	205-99-2	< 74	n/a	ug/Kg	07/20/05			U
BLANK	Benzo(ghi)perylene	191-24-2	< 77	n/a	ug/Kg	07/20/05			U
BLANK	Benzo(a)pyrene	50-32-8	< 61	n/a	ug/Kg	07/20/05			U
BLANK	Bis(2-Chloroethoxy)methane	111-91-1	< 61	n/a	ug/Kg	07/20/05			U
BLANK	Bis(2-ethylhexyl) phthalate	117-81-7	< 71	n/a	ug/Kg	07/20/05			U
BLANK	Bis(2-chloro-1-methylethyl)eth	108-60-1	< 88	n/a	ug/Kg	07/20/05			U
BLANK	Benzyl alcohol	100-51-6	< 57	n/a	ug/Kg	07/20/05			U
BLANK	Benzo(k)fluoranthene	207-08-9	< 54	n/a	ug/Kg	07/20/05			U
BLANK	Butylbenzylphthalate	85-68-7	< 74	n/a	ug/Kg	07/20/05			U
BLANK	Carbazole	86-74-8	< 78	n/a	ug/Kg	07/20/05			U
BLANK	4-Chloroaniline	106-47-8	< 150	n/a	ug/Kg	07/20/05			U
BLANK	4-Chloro-3-methylphenol	59-50-7	< 47	n/a	ug/Kg	07/20/05			U
BLANK	2-Chlorophenol	95-67-8	< 76	n/a	ug/Kg	07/20/05			U
BLANK	Chrysene	218-01-9	< 71	n/a	ug/Kg	07/20/05			U
BLANK	Cyclohexanone	108-94-1	< 87	n/a	ug/Kg	07/20/05			U
BLANK	3,3'-Dichlorobenzidine	91-94-1	< 200	n/a	ug/Kg	07/20/05			U
BLANK	Decane	124-18-5	< 170	n/a	ug/Kg	07/20/05			U
BLANK	Dibenz[a,h]anthracene	53-70-3	< 93	n/a	ug/Kg	07/20/05			U
BLANK	Dibenzofuran	132-64-9	< 61	n/a	ug/Kg	07/20/05			U
BLANK	Di-n-butylphthalate	84-74-2	< 160	n/a	ug/Kg	07/20/05			U
BLANK	Diethylphthalate	84-66-2	< 130	n/a	ug/Kg	07/20/05			U
BLANK	Dimethyl phthalate	131-11-3	< 64	n/a	ug/Kg	07/20/05			U
BLANK	2,4-Dinitrophenol	51-28-5	< 180	n/a	ug/Kg	07/20/05			U
BLANK	Di-n-octylphthalate	117-84-0	< 85	n/a	ug/Kg	07/20/05			U
BLANK	N-Nitrosodi-n-dipropylamine	621-64-7	< 75	n/a	ug/Kg	07/20/05			U
BLANK	2-Fluorobiphenyl	321-60-8	968.47	72.600	% Recov	07/20/05	56.000	122.000	
BLANK	Fluorene	86-73-7	< 68	n/a	ug/Kg	07/20/05			U
BLANK	Fluoranthene	206-44-0	< 80	n/a	ug/Kg	07/20/05			U

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20051337
 Matrix: SOLID
 Test: SW-846 8270C Semi-Vols

SAF Number: F05-023
 Sample Date:
 Receive Date:

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
BLANK	Hexachlorobenzene	118-74-1	< 69	n/a	ug/Kg	07/20/05			U
BLANK	Hexachlorobutadiene	87-68-3	< 83	n/a	ug/Kg	07/20/05			U
BLANK	Hexachlorocyclopentadiene	77-47-4	< 180	n/a	ug/Kg	07/20/05			U
BLANK	Hexachloroethane	67-72-1	< 120	n/a	ug/Kg	07/20/05			U
BLANK	Indeno(1,2,3-cd)pyrene	193-39-5	< 82	n/a	ug/Kg	07/20/05			U
BLANK	Isophorone	78-59-1	< 83	n/a	ug/Kg	07/20/05			U
BLANK	Phenol	108-95-2	< 69	n/a	ug/Kg	07/20/05			U
BLANK	Naphthalene	91-20-3	< 82	n/a	ug/Kg	07/20/05			U
BLANK	Nitrobenzene-d5	4165-60-0	963.11	72.200	% Recov	07/20/05	64.000	111.000	
BLANK	Nitrobenzene	98-95-3	< 83	n/a	ug/Kg	07/20/05			U
BLANK	4-Nitrophenol	100-02-7	< 86	n/a	ug/Kg	07/20/05			U
BLANK	4-Nitroaniline	100-01-6	< 87	n/a	ug/Kg	07/20/05			U
BLANK	N-Nitrosodiphenylamine	86-30-6	< 72	n/a	ug/Kg	07/20/05			U
BLANK	Pentachlorophenol	87-86-5	< 73	n/a	ug/Kg	07/20/05			U
BLANK	Phenanthrene	85-01-8	< 71	n/a	ug/Kg	07/20/05			U
BLANK	Phenol-d5	4165-62-2	1001.9	75.100	% Recov	07/20/05	54.000	120.000	
BLANK	Pyrene	129-00-0	< 78	n/a	ug/Kg	07/20/05			U
BLANK	Pyridine	110-86-1	< 95	n/a	ug/Kg	07/20/05			U
BLANK	Tributyl phosphate	126-73-8	< 71	n/a	ug/Kg	07/20/05			U
BLANK	2,4,6-Tribromophenol	118-79-6	933.97	70.000	% Recov	07/20/05	24.000	122.000	
BLANK	Terphenyl-d14 (7Cl)	98904-43-9	1000.7	75.100	% Recov	07/20/05	35.000	150.000	
LCS	1,2,4-Trichlorobenzene	120-82-1	1137.5	85.300	% Recov	07/20/05	46.000	107.000	
LCS	1,4-Dichlorobenzene	106-46-7	1024.2	76.800	% Recov	07/20/05	42.000	111.000	
LCS	2,4-Dinitrotoluene	121-14-2	1172.7	88.000	% Recov	07/20/05	59.000	106.000	
LCS	2-Fluorophenol	387-12-4	1294.0	97.100	% Recov	07/20/05	50.000	110.000	
LCS	Acenaphthene	83-32-9	1134.9	85.100	% Recov	07/20/05	61.000	116.000	
LCS	4-Chloro-3-methylphenol	59-50-7	1687.1	84.400	% Recov	07/20/05	61.000	106.000	
LCS	2-Chlorophenol	95-67-8	1735.3	86.800	% Recov	07/20/05	66.000	106.000	
LCS	N-Nitrosodi-n-dipropylamine	621-84-7	1171.4	87.900	% Recov	07/20/05	71.000	114.000	
LCS	2-Fluorobiphenyl	321-60-8	1170.9	87.800	% Recov	07/20/05	58.000	109.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20051337
 Matrix: SOLID
 Test: SW-846 8270C Semi-Vols

SAF Number: F05-023
 Sample Date:
 Receive Date:

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
LCS	Phenol	108-95-2	1765.5	87.800	% Recov	07/20/05	87.000	105.000	
LCS	Nitrobenzene-d5	4165-60-0	1151.9	86.400	% Recov	07/20/05	80.000	118.000	
LCS	4-Nitrophenol	100-02-7	1516.4	75.800	% Recov	07/20/05	32.000	118.000	
LCS	Pentachlorophenol	87-86-5	1514.5	75.700	% Recov	07/20/05	62.000	114.000	
LCS	Phenol-d5	4165-62-2	1197.8	89.800	% Recov	07/20/05	59.000	118.000	
LCS	Pyrene	129-00-0	1158.7	86.900	% Recov	07/20/05	66.000	118.000	
LCS	2,4,6-Tribromophenol	118-79-6	1165.7	87.400	% Recov	07/20/05	60.000	120.000	
LCS	Terphenyl-d14 (7Cl)	98904-43-9	1224.4	91.800	% Recov	07/20/05	60.000	120.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20051337

Matrix: SOLID

Test: WTPH-D TPH Diesel Range (Wa)

SAF Number: F05-023

Sample Date: 06/29/05

Receive Date: 06/29/05

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
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Lab ID: W050002028

BATCH QC ASSOCIATED WITH SAMPLE

MS	Kerosene	TPHKEROSENE	138550	108.000	% Recov	07/21/05	70.000	130.000	
MS	ortho-Terphenyl	Surr	84-15-1	25310	99.100	% Recov	07/21/05	70.000	130.000
MSD	Kerosene	TPHKEROSENE	115740	90.300	% Recov	07/21/05	70.000	130.000	
MSD	ortho-Terphenyl	Surr	84-15-1	22994	89.700	% Recov	07/21/05	70.000	130.000
SPK-RPD	ortho-Terphenyl	Surr	84-15-1	89.700	8.958	RPD	07/21/05	0.000	20.000
SURR	ortho-Terphenyl	Surr	84-15-1	28370	111.000	% Recov	07/21/05	70.000	130.000

BATCH QC

BLANK	Kerosene	TPHKEROSENE	< 3800	n/a	ug/Kg	07/21/05			U
BLANK	ortho-Terphenyl	Surr	84-15-1	25846	103.000	% Recov	07/21/05	70.000	130.000
BLANK	Total Pet. Hydrocarbons Diesel	TPHDIESEL	< 3800	n/a	ug/Kg	07/21/05			U
LCS	ortho-Terphenyl	Surr	84-15-1	26822	107.000	% Recov	07/21/05	70.000	130.000
LCS	Total Pet. Hydrocarbons Diesel	TPHDIESEL	136180	108.000	% Recov	07/21/05	80.000	120.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20051337

Matrix: SOLID

Test: VOA Ground Water Protection

SAF Number: F05-023

Sample Date: 06/23/05

Receive Date: 06/23/05

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
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Lab ID: W050001997

BATCH QC ASSOCIATED WITH SAMPLE

MS	1,1-Dichloroethene	75-35-4	23.090	92.400	% Recov	07/06/05	63.000	117.000	
MS	Benzene	71-43-2	22.310	89.200	% Recov	07/06/05	75.000	129.000	
MS	4-Bromofluorobenzene	460-00-4	52.070	104.000	% Recov	07/06/05	84.000	116.000	
MS	Chlorobenzene	108-90-7	24.190	96.800	% Recov	07/06/05	79.000	119.000	
MS	1,2-Dichloroethane-d4	17060-07-0	48.900	97.800	% Recov	07/06/05	82.000	136.000	
MS	Toluene-d8	2037-26-5	53.520	107.000	% Recov	07/06/05	89.000	119.000	
MS	Toluene	108-88-3	24.630	98.500	% Recov	07/06/05	78.000	120.000	
MS	Trichloroethene	79-01-6	24.260	97.000	% Recov	07/06/05	73.000	123.000	
MSD	1,1-Dichloroethene	75-35-4	36.960	87.100	% Recov	07/06/05	83.000	117.000	
MSD	Benzene	71-43-2	40.740	96.000	% Recov	07/06/05	75.000	129.000	
MSD	4-Bromofluorobenzene	460-00-4	86.860	102.000	% Recov	07/06/05	84.000	116.000	
MSD	Chlorobenzene	108-90-7	41.540	97.900	% Recov	07/06/05	79.000	119.000	
MSD	1,2-Dichloroethane-d4	17060-07-0	83.950	98.900	% Recov	07/06/05	82.000	136.000	
MSD	Toluene-d8	2037-26-5	92.820	109.000	% Recov	07/06/05	89.000	119.000	
MSD	Toluene	108-88-3	44.180	104.000	% Recov	07/06/05	76.000	120.000	
MSD	Trichloroethene	79-01-6	40.440	95.300	% Recov	07/06/05	73.000	123.000	
SPK-RPD	1,1-Dichloroethene	75-35-4	87.100	5.905	RPD	07/06/05	0.000	20.000	
SPK-RPD	Benzene	71-43-2	98.000	7.343	RPD	07/06/05	0.000	20.000	
SPK-RPD	4-Bromofluorobenzene	460-00-4	102.000	1.942	RPD	07/06/05	0.000	20.000	
SPK-RPD	Chlorobenzene	108-90-7	97.900	1.130	RPD	07/06/05	0.000	20.000	
SPK-RPD	1,2-Dichloroethane-d4	17060-07-0	98.900	1.118	RPD	07/06/05	0.000	20.000	
SPK-RPD	Toluene-d8	2037-26-5	109.000	1.852	RPD	07/06/05	0.000	20.000	
SPK-RPD	Toluene	108-88-3	104.000	5.432	RPD	07/06/05	0.000	20.000	
SPK-RPD	Trichloroethene	79-01-6	95.300	1.768	RPD	07/06/05	0.000	20.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20051337

Matrix: SOLID

Test: VOA Ground Water Protection

SAF Number: F05-023

Sample Date: 06/29/05

Receive Date: 06/29/05

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
Lab ID: W050002028									
BATCH QC ASSOCIATED WITH SAMPLE									
SURR	4-Bromofluorobenzene	460-00-4	50.080	100.000	% Recov	07/06/05	71.000	125.000	
SURR	1,2-Dichloroethane-d4	17060-07-0	51.180	102.000	% Recov	07/06/05	80.000	134.000	
SURR	Toluene-d8	2037-26-5	51.880	104.000	% Recov	07/06/06	80.000	126.000	
BATCH QC									
BLANK	1,1-Dichloroethane	75-34-3	< 2.0	n/a	ug/Kg	07/06/05			U
BLANK	1,1,1-Trichloroethane	71-55-6	< 2.0	n/a	ug/Kg	07/06/06			U
BLANK	1,1,2-Trichloroethane	79-00-5	< 2.0	n/a	ug/Kg	07/06/05			U
BLANK	1,1,2,2-Tetrachloroethane	79-34-6	< 2.0	n/a	ug/Kg	07/06/05			U
BLANK	1,1-Dichloroethene	75-35-4	< 2.0	n/a	ug/Kg	07/06/05			U
BLANK	1,2-Dichloroethane	107-06-2	< 2.0	n/a	ug/Kg	07/06/05			U
BLANK	1,2-Dichloroethene(Total)	540-59-0	< 2.0	n/a	ug/Kg	07/06/05			U
BLANK	1-Butanol	71-36-3	< 40	n/a	ug/Kg	07/06/05			U
BLANK	2-Hexanone	591-78-6	< 2.0	n/a	ug/Kg	07/06/05			U
BLANK	2-Pentanone	107-87-9	< 2.0	n/a	ug/Kg	07/06/05			U
BLANK	4-Methyl-2-Pantanone	108-10-1	< 2.0	n/a	ug/Kg	07/06/05			U
BLANK	Acetone	67-64-1	< 2.0	n/a	ug/Kg	07/06/05			U
BLANK	Bromodichloromethane	75-27-4	< 2.0	n/a	ug/Kg	07/06/05			U
BLANK	Benzene	71-43-2	< 2.0	n/a	ug/Kg	07/06/05			U
BLANK	4-Bromofluorobenzene	460-00-4	52.910	106.000	% Recov	07/06/05	71.000	126.000	
BLANK	Bromoform	75-25-2	< 2.0	n/a	ug/Kg	07/06/05			U
BLANK	n-Butylbenzene	104-51-8	< 2.0	n/a	ug/Kg	07/06/05			U
BLANK	Carbon disulfide	75-15-0	< 2.0	n/a	ug/Kg	07/06/05			U
BLANK	Carbon tetrachloride	56-23-5	< 2.0	n/a	ug/Kg	07/06/05			U
BLANK	Dibromochloromethane	124-48-1	< 2.0	n/a	ug/Kg	07/06/05			U
BLANK	Cyclohexane	110-82-7	< 2.0	n/a	ug/Kg	07/06/05			U
BLANK	Chloroform	67-66-3	< 2.0	n/a	ug/Kg	07/06/05			U

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20051337

Matrix: SOLID

Test: VOA Ground Water Protection

SAF Number: F05-023

Sample Date:

Receive Date:

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
BLANK	Chlorobenzene	108-90-7	< 2.0	n/a	ug/Kg	07/06/05			U
BLANK	cis-1,2-Dichloroethylene	156-59-2	< 2.0	n/a	ug/Kg	07/06/05			U
BLANK	cis-1,3-Dichloropropene	10061-01-5	< 2.0	n/a	ug/Kg	07/06/05			U
BLANK	Chloroethane	75-00-3	< 2.0	n/a	ug/Kg	07/06/05			U
BLANK	1,2-Dichloroethane-d4	17080-07-0	49.420	98.800	% Recov	07/06/05	80.000	134.000	
BLANK	trans-1,2-Dichloroethylene	156-80-5	< 2.0	n/a	ug/Kg	07/06/05			U
BLANK	1,2-Dichloropropane	78-87-5	< 2.0	n/a	ug/Kg	07/06/05			U
BLANK	Ethylbenzene	100-41-4	< 2.0	n/a	ug/Kg	07/06/05			U
BLANK	Hexane	110-54-3	< 2.0	n/a	ug/Kg	07/06/05			U
BLANK	Bromomethane	74-83-9	< 2.0	n/a	ug/Kg	07/06/05			U
BLANK	Chloromethane	74-87-3	< 2.0	n/a	ug/Kg	07/06/05			U
BLANK	2-Butanone	78-93-3	< 2.0	n/a	ug/Kg	07/06/05			U
BLANK	Methylenechloride	75-09-2	< 2.0	n/a	ug/Kg	07/06/05			U
BLANK	Tetrachloroethene	127-18-4	< 2.0	n/a	ug/Kg	07/06/05			U
BLANK	Styrene	100-42-5	< 2.0	n/a	ug/Kg	07/06/05			U
BLANK	Xylenes (total)	1330-20-7	< 2.0	n/a	ug/Kg	07/06/05			U
BLANK	Tetrahydrofuran	109-99-9	< 4.0	n/a	ug/Kg	07/06/05			U
BLANK	Toluene-d8	2037-28-5	52.360	105.000	% Recov	07/06/05	80.000	126.000	
BLANK	Toluene	108-88-3	< 2.0	n/a	ug/Kg	07/06/05			U
BLANK	trans-1,3-Dichloropropene	10061-02-6	< 2.0	n/a	ug/Kg	07/06/05			U
BLANK	Trichloromonofluoromethane	75-69-4	< 2.0	n/a	ug/Kg	07/06/05	0.000	5,000	U
BLANK	Trichloroethene	79-01-8	< 2.0	n/a	ug/Kg	07/06/05			U
BLANK	Vinyl chloride	75-01-4	< 2.0	n/a	ug/Kg	07/06/05			U
LCS	1,1-Dichloroethene	75-35-4	23.510	94.000	% Recov	07/06/05	70.000	130.000	
LCS	Benzene	71-43-2	24.730	88.900	% Recov	07/06/05	70.000	130.000	
LCS	4-Bromofluorobenzene	460-00-4	51.220	102.000	% Recov	07/06/05	71.000	125.000	
LCS	Chlorobenzene	108-90-7	25.360	101.000	% Recov	07/06/05	70.000	130.000	
LCS	1,2-Dichloroethane-d4	17080-07-0	53.280	107.000	% Recov	07/06/05	80.000	134.000	
LCS	Toluene-d8	2037-28-5	53.280	107.000	% Recov	07/06/05	80.000	128.000	
LCS	Toluene	108-88-3	27.010	108.000	% Recov	07/06/05	70.000	130.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20051337

Matrix: SOLID

Test: VOA Ground Water Protection

SAF Number: F05-023

Sample Date:

Receive Date:

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
LCS	Trichloroethene	79-01-6	26.670	102.000	% Recov	07/06/06	70.000	130.000	

WSCF
ANALYTICAL RESULTS REPORT

Attention: Steve Trent **Group #:** WSCF20051337
Project: F05-023: F05-023

Sample #	Client ID	CAS #	Test Performed	Matrix	WSCF Method	RQ	Result	Unit	DF	MDL	Analyze Sample	Receive
Radiochemistry												
W050002028	B1D994	TRENT	14598-10-2	Americium-241	SOIL	LA-508-471	U	8.40e-03	pCi/g	1.00	0.047	07/18/05 06/29/05 06/29/05
W050002028	B1D994	TRENT	E,T,C	Am-241 by AEA Total Cntg Error	SOIL	LA-508-471	+-	0.027	pCi/g	1.00	0.0	07/18/05 06/29/05 06/29/05
W050002028	B1D994	TRENT	10198-40-0	Cobalt-60	SOIL	LA-508-481	U	1.19e-03	pCi/g	1.00	0.013	07/07/05 06/29/05 06/29/05
W050002028	B1D994	TRENT	E,T,C	Co-60 Rel. Count Error (GEA)	SOIL	LA-508-481	+-	7.6e-03	pCi/g	1.00	0.0	07/07/05 06/29/05 06/29/05
W050002028	B1D994	TRENT	10045-97-3	Cesium-137	SOIL	LA-508-481	U	2.77e-03	pCi/g	1.00	0.013	07/07/05 06/29/05 06/29/05
W050002028	B1D994	TRENT	E,T,C	Cs-137 Rel. Count Error (GEA)	SOIL	LA-508-481	+-	8.4e-03	pCi/g	1.00	0.0	07/07/05 06/29/05 06/29/05
W050002028	B1D994	TRENT	14683-23-9	Europium-152	SOIL	LA-508-481	U	-5.40e-03	pCi/g	1.00	0.038	07/07/05 06/29/05 06/29/05
W050002028	B1D994	TRENT	E,T,C	Eu-152 Rel. Count Error (GEA)	SOIL	LA-508-481	+-	0.024	pCi/g	1.00	0.0	07/07/05 06/29/05 06/29/05
W050002028	B1D994	TRENT	15585-10-1	Europium-154	SOIL	LA-508-481	U	0.0116	pCi/g	1.00	0.042	07/07/05 06/29/05 06/29/05
W050002028	B1D994	TRENT	E,T,C	Eu-154 Rel. Count Error (GEA)	SOIL	LA-508-481	+-	0.027	pCi/g	1.00	0.0	07/07/05 06/29/05 06/29/05
W050002028	B1D994	TRENT	14391-18-3	Europium-155	SOIL	LA-508-481	U	0.0392	pCi/g	1.00	0.053	07/07/05 06/29/05 06/29/05
W050002028	B1D994	TRENT	E,T,C	Eu-155 Rel. Count Error (GEA)	SOIL	LA-508-481	+-	0.036	pCi/g	1.00	0.0	07/07/05 06/29/05 06/29/05
W050002028	B1D994	TRENT	13981-16-3	Plutonium-238	SOIL	LA-508-471	U	-1.80e-03	pCi/g	1.00	0.051	07/18/05 06/29/05 06/29/05
W050002028	B1D994	TRENT	E,T,C	Pu-238 by AEA Total Cntg Error	SOIL	LA-508-471	+-	0.018	pCi/g	1.00	0.0	07/18/05 06/29/05 06/29/05
W050002028	B1D994	TRENT	PU-239/240	Pu-239/240 by AEA	SOIL	LA-508-471	U	7.00e-03	pCi/g	1.00	0.018	07/18/05 06/29/05 06/29/05
W050002028	B1D994	TRENT	E,T,C	Pu-239/240 AEA Total Cntg Err	SOIL	LA-508-471	+-	9.8e-03	pCi/g	1.00	0.0	07/18/05 06/29/05 06/29/05
W050002028	B1D994	TRENT	SR-RAD	Strontrium-89/90	SOIL	LA-508-415	U	-0.390	pCi/g	1.00	0.25	07/14/05 06/29/05 06/29/05
W050002028	B1D994	TRENT	E,T,C	Sr-89/90 Rel. Count Error	SOIL	LA-508-415	+-	0.39	pCi/g	1.00	0.0	07/14/05 06/29/05 06/29/05
W050002028	B1D994	TRENT	U-233/234	Uranium-233/234	SOIL	LA-508-471		0.140	pCi/g	1.00	4.9e-03	07/18/05 06/29/05 06/29/05
W050002028	B1D994	TRENT	E,T,C	U-233/234 AEA Total Cntg Error	SOIL	LA-508-471	+-	0.048	pCi/g	1.00	0.0	07/18/05 06/29/05 06/29/05
W050002028	B1D994	TRENT	15117-98-1	Uranium-235	SOIL	LA-508-471		0.0200	pCi/g	1.00	0.015	07/18/05 06/29/05 06/29/05
W050002028	B1D994	TRENT	E,T,C	U-235 by AEA Total Cntg Error	SOIL	LA-508-471	+-	0.015	pCi/g	1.00	0.0	07/18/05 06/29/05 06/29/05
W050002028	B1D994	TRENT	U-238	Uranium-238	SOIL	LA-508-471		0.140	pCi/g	1.00	0.020	07/18/05 06/29/05 06/29/05
W050002028	B1D994	TRENT	E,T,C	U-238 by AEA Total Cntg Error	SOIL	LA-508-471	+-	0.049	pCi/g	1.00	0.10	07/18/05 06/29/05 06/29/05

MDL=Minimum Detection Limit

B - The analyte < the RDL but > = the IDL/MDL (inorganic)

U - Analyzed for but not detected above limiting criteria.

RQ=Result Qualifier

DF=Dilution Factor

* - Indicates results that have NOT been validated; + - Indicates more than six qualifier symbols

Report WGPP/ver. 1.1

Groundwater Remediation Program

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20051337

Matrix: SOLID

Test: Gamma Energy Analysis-grd H₂O

SAF Number: F05-023

Sample Date: 06/24/05

Receive Date: 06/24/05

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
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Lab ID: W050002009

BATCH QC ASSOCIATED WITH SAMPLE

DUP	Cesium-137	10045-97-3	U2.13e-04	n/a	RPD	07/06/05	0.000	20.000
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BATCH QC

BLANK	Cobalt-60	10198-40-0	U-1.3e-3	n/a	pCi/g	07/06/05	-10.000	1000.000
BLANK	Cesium-137	10045-97-3	U-1.4e-3	n/a	pCi/g	07/06/05	-10.000	1000.000
BLANK	Europium-152	14683-23-8	U8.85e-4	n/a	pCi/g	07/06/05	-10.000	1000.000
BLANK	Europium-154	15585-10-1	U-4.0e-3	n/a	pCi/g	07/06/05	-10.000	1000.000
BLANK	Europium-155	14391-16-3	U-1.4e-2	n/a	pCi/g	07/06/05	-10.000	1000.000
LCS	Cobalt-60	10198-40-0	4.44e+03	105.967	% Recov	07/05/05	80.000	120.000
LCS	Cesium-137	10045-97-3	3.91e+03	109.218	% Recov	07/05/05	80.000	120.000

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20051337

Matrix: SOLID

Test: Americium by AEA

SAF Number: F05-023

Sample Date: 06/23/05

Receive Date: 06/23/05

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
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Lab ID: W050001997

BATCH QC ASSOCIATED WITH SAMPLE

DUP	Americium-241	14598-10-2	U-8.9e-03	n/a	RPD	07/18/05	0.000	20.000	
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BATCH QC

BLANK	Americium-241	14598-10-2	U1.4e-02	n/a	pCi/g	07/18/05	-10.000	1000.000	
LCS	Americium-241	14598-10-2	4.7e+01	105.665	% Recov	07/18/05	75.000	125.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20051337

Matrix: SOLID

Test: Plutonium Isotopes by AEA

SAF Number: F05-023

Sample Date: 06/23/05

Receive Date: 06/23/05

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
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Lab ID: W050001997

BATCH QC ASSOCIATED WITH SAMPLE

DUP	Plutonium-238	13981-16-3	U-2.3e-02	n/a	RPD	07/18/05	0.000	20.000	
DUP	Pu-239/240 by AEA	PU-239/240	U1.9E-03	n/a	RPD	07/18/05	0.000	20.000	

BATCH QC

BLANK	Plutonium-238	13981-16-3	U-1.3e-02	n/a	PCT	07/18/05	0.000	1000.000	
BLANK	Pu-239/240 by AEA	PU-239/240	U5.5e-03	n/a	pCi/g	07/18/05	-10.000	1000.000	
LCS	Pu-239/240 by AEA	PU-239/240	4.8e+01	93.422	% Recov	07/18/05	75.000	125.000	

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20051337
 Matrix: SOLID
 Test: Strontium 89/90

SAF Number: F05-023
 Sample Date: 06/29/05
 Receive Date: 06/29/05

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
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Lab ID: W050002028

BATCH QC ASSOCIATED WITH SAMPLE

DUP	Strontium-89/90	SR-RAD	U-7.3E-02	n/a	RPD	07/14/05	0.000	20.000
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BATCH QC

BLANK	Strontium-89/90	10098-97-2	5.6e-01	0.560	pCi/g	07/14/05	-10.000	300.000
LCS	Strontium-89/90	10098-97-2	70.7	99.577	% Recov	07/14/05	80.000	120.000

WSCF ANALYTICAL LABORATORY QC REPORT

SDG Number: WSCF20051337
 Matrix: SOLID
 Test: Uranium Isotopes by AEA

SAF Number: F05-023
 Sample Date: 06/23/05
 Receive Date: 06/23/05

QC Type	Analyte	CAS #	QC Found	QC Yield	Units	Analysis Date	Lower Limit	Upper Limit	RQ
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Lab ID: W050001997

BATCH QC ASSOCIATED WITH SAMPLE

DUP	Uranium-233/234	U-233/234	1.2e-01	28.571	RPD	07/18/05	0.000	20.000	-
DUP	Uranium-235	15117-96-1	1.1e-02	n/a	RPD	07/18/05	0.000	20.000	-
DUP	Uranium-238	U-238	1.2e-01	22.222	RPD	07/18/05	0.000	20.000	-

BATCH QC

BLANK	Uranium-233/234	13966-29-5	U1.2e-02	n/a	pCi/g	07/18/05	-10.000	1000.000	
BLANK	Uranium-235	15117-96-1	U7.8e-03	n/a	pCi/g	07/18/05	-10.000	1000.000	
BLANK	Uranium-238	24678-82-8	7.1e-03	0.007	pCi/g	07/18/05	-10.000	1000.000	
LCS	Uranium-238	24678-82-8	3.3e+01	97.059	% Recov	07/18/05	75.000	125.000	

WSCF
ANALYTICAL COMMENT REPORT

Attention: Steve Trent
Project Number F05-023

Group #: WSCF20051337

Sample #	Client ID	Lab Area	Test	Comment
		VALGROUP		IC Ammonia: DUP RPD criterion not applicable to low level (8 flagged) samples ORGANICS: Sample concentrations are corrected for moisture and reported as dry weight basis. g/m ICP-AES: Insufficient spike Phosphorus MS/MSD, results NA. U234& U238 batch sample and dup are not homogeneous. Imh

Lab Areas: VALGROUP - Group Validation
LOGSAMP - Login for Sample

VALTEST - Test Validation
LOGTEST - Login for Tests

TESTDATA - Test Data Entry

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WSCF
TENTATIVELY IDENTIFIED PEAK REPORT

Attention: Steve Trent
Project Number F05-023 :F05-023

Group #: WSCF20051337

Sample #	Client ID	Test Name	Peak Name	CAS#	RT	RQ	Result	Units
W050002028	B1D994	TRENT	Gamma Energy Analysis-grd H2O	K-40 Count Error			13	%
W050002028	B1D994	TRENT	Gamma Energy Analysis-grd H2O	PB-212 Count Error			14	%
W050002028	B1D994	TRENT	Gamma Energy Analysis-grd H2O	PB-214 Count Error			15	%
W050002028	B1D994	TRENT	Gamma Energy Analysis-grd H2O	TL-208 Count Error			17	%
W050002028	B1D994	TRENT	Gamma Energy Analysis-grd H2O	Bl-214 Count Error			17	%
W050002028	B1D994	TRENT	Gamma Energy Analysis-grd H2O	RA-226 Count Error			17	%
W050002028	B1D994	TRENT	Gamma Energy Analysis-grd H2O	AC-228 Count Error			18	%
W050002028	B1D994	TRENT	Gamma Energy Analysis-grd H2O	RA-228 Count Error			18	%
W050002028	B1D994	TRENT	Gamma Energy Analysis-grd H2O	SN-126 Count Error			24	%
W050002028	B1D994	TRENT	Gamma Energy Analysis-grd H2O	Bl-212 Count Error			30	%
W050002028	B1D994	TRENT	Gamma Energy Analysis-grd H2O	CS-134 Count Error			44	%
W050002028	B1D994	TRENT	Gamma Energy Analysis-grd H2O	CS-134			0.030	pCi/g
W050002028	B1D994	TRENT	Gamma Energy Analysis-grd H2O	SN-126			0.18	pCi/g
W050002028	B1D994	TRENT	Gamma Energy Analysis-grd H2O	Bl-214			0.52	pCi/g
W050002028	B1D994	TRENT	Gamma Energy Analysis-grd H2O	RA-226			0.52	pCi/g
W050002028	B1D994	TRENT	Gamma Energy Analysis-grd H2O	PB-214			0.61	pCi/g
W050002028	B1D994	TRENT	Gamma Energy Analysis-grd H2O	AC-228			0.74	pCi/g
W050002028	B1D994	TRENT	Gamma Energy Analysis-grd H2O	RA-228			0.74	pCi/g

RQ=Result Qualifier J - Analyte is an estimate, has potentially larger errors

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Groundwater Remediation Program

WGPPE v 1.1 Report #: 20051337

Report Date: 26-Jul-2005

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METHOD REFERENCES REPORT

The results provided in this report were generated using the following WSCF Laboratory procedures. For your convenience, this table provides a listing of the regulatory or industry methods that are referenced by each of these WSCF procedures. Please note that the most recent version of the regulatory or industry method is listed here even though the WSCF procedure may reference an older version of the method. Also, a reference to a regulatory or industry method here does not necessarily indicate a verbatim implementation of that method.

LA-212-411	Determination of Soil pH Measurement EPA SW-846 9045C	SOIL AND WASTE pH
LA-503-401	LA-503-401: ANALYSIS OF CATIONS BY ION CHROMATOGRAPHY EPA-600/4-86-024 300.7	Dissolved Sodium, Ammonium, Potassium, and Calcium in Wet Deposition by Chemical
LA-505-411	LA-505-411: ELEMENTAL ANALYSIS BY INDUCTIVELY COUPLED PLASMA ATOMIC EMISSION SPE EPA SW-846 6010B	INDUCTIVELY COUPLED PLASMA-ATOMIC EMISSION SPECTROMETRY
LA-505-412	LA-505-412: DETERMINATION OF TRACE ELEMENTS IN WATERS AND WASTES BY INDUCTIVELY EPA-600/R-94-111 200.8	DETERMINATION OF TRACE ELEMENTS IN WATERS AND WASTES BY INDUCTIVELY COUPLED PLAS
LA-508-415	LA-508-415: OPERATION OF THE PROTEAN 2-INCH ALPHA/BETA COUNTING SYSTEM FOR GROSS None	No reference to any industry method.
LA-508-471	LA-508-471: ALPHA ENERGY ANALYZER DATA ACQUISITION AND SYSTEM CHECKOUT USING ALP None	No reference to any industry method.
LA-508-481	LA-508-481: GAMMA ENERGY ANALYSIS USING PROCOUNT SOFTWARE None	No reference to any industry method.
LA-519-412	LA-519-412: TOTAL RESIDUE/% SOLIDS DRIED AT 103 - 105 °C EPA-600/4-79-020 160.3 Standard Methods 2540B	RESIDUE, TOTAL Total Solids Dried at 103-105 °C

Note: A complete list of WSCF analytical procedures and referenced regulatory or industry methods is available online at
\\ap006\aspdocs\WSCF\Sample Mgmt\ProcedureMethodCrossReference.pdf. This document includes on-line
links to full-text versions of the procedures and methods, where available.

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WSCF

METHOD REFERENCES REPORT

The results provided in this report were generated using the following WSCF Laboratory procedures. For your convenience, this table provides a listing of the regulatory or industry methods that are referenced by each of these WSCF procedures. Please note that the most recent version of the regulatory or industry method is listed here even though the WSCF procedure may reference an older version of the method. Also, a reference to a regulatory or industry method here does not necessarily indicate a verbatim implementation of that method.

LA-523-427	LA-523-427: POLYCHLORINATED BIPHENYLS (PCBs) BY GAS CHROMATOGRAPHY EPA SW-846 3510C SEPARATORY FUNNEL LIQUID-LIQUID EXTRACTION EPA SW-846 3545 PRESSURIZED FLUID EXTRACTION (PFE) EPA SW-846 3665A SULFURIC ACID/PERMANGANATE CLEANUP EPA SW-846 8000B DETERMINATIVE CHROMATOGRAPHIC SEPARATIONS EPA SW-846 8082 POLYCHLORINATED BIPHENYLS (PCBs) BY GAS CHROMATOGRAPHY
LA-523-455	LA-523-455: VOLATILE SAMPLE ANALYSIS BY SW-846 EPA SW-846 8000B DETERMINATIVE CHROMATOGRAPHIC SEPARATIONS EPA SW-846 8260B VOLATILE ORGANIC COMPOUNDS BY GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)
LA-523-456	LA-523-456: SEMIVOLATILE SAMPLE ANALYSIS BY SW-846, METHOD 8270C EPA SW-846 8000B DETERMINATIVE CHROMATOGRAPHIC SEPARATIONS EPA SW-846 8270C SEMIVOLATILE ORGANIC COMPOUNDS BY GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC/MS)
LA-533-410	LA-533-410: ANION ANALYSIS BY ION CHROMATOGRAPHY EPA-600/R-94-111 300.0 DETERMINATION OF INORGANIC ANIONS BY ION CHROMATOGRAPHY
NWTPH	NWTPH-Diesel and/or Gasoline WDOE NWTPH-Dx/Gx Total Petroleum Hydrocarbons - Diesel/Gasoline

Note: A complete list of WSCF analytical procedures and referenced regulatory or industry methods is available online at \\ap006\aspdocs\WSCF\Sample Mgmt\ProcedureMethodCrossReference.pdf. This document includes on-line links to full-text versions of the procedures and methods, where available.

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w13qlog v1 26-jul-2005 11:08:00

W13q Worklist/Batch/QC Report for Group# WSCF20051337

WL#	S#	Batch	QC#	Tray	Type	Sample#	Test
				SAMPLE		W050002028	Percent Solids
		30362	DUP			W050002028	pH Soil and Waste Measurement
		30362	SAMPLE			W050002028	pH Soil and Waste Measurement
26486	1	26859	30411	BLANK			ICP-2008 MS All possible metal
26486	2	26859	30411	LCS			ICP-2008 MS All possible metal
26486	4	26859	30411	MS		W050002015	ICP-2008 MS All possible metal
26486	5	26859	30411	MSD		W050002015	ICP-2008 MS All possible metal
26486	5	26859	30411	SPK-RPD		W050002015	ICP-2008 MS All possible metal
26486	6	26859	30411	SAMPLE		W050002028	ICP-2008 MS All possible metal
26509	2	26882	30436	BLANK			Anions by Ion Chromatography
26509	10	26882	30436	BLANK			Anions by Ion Chromatography
26509	3	26882	30436	LCS			Anions by Ion Chromatography
26509	5	26882	30436	DUP		W050002028	Anions by Ion Chromatography
26509	6	26882	30436	MS		W050002028	Anions by Ion Chromatography
26509	7	26882	30436	MSD		W050002028	Anions by Ion Chromatography
26509	4	26882	30436	SAMPLE		W050002028	Anions by Ion Chromatography
26413	1	26785	30442	BLANK			Gamma Energy Analysis-grd H2O
26413	2	26785	30442	LCS			Gamma Energy Analysis-grd H2O
26413	3	26785	30442	DUP		W050002009	Gamma Energy Analysis-grd H2O
26413	5	26785	30442	SAMPLE		W050002028	Gamma Energy Analysis-grd H2O
26512	2	26885	30452	BLANK			Ammonia (N) by IC
26512	10	26885	30452	BLANK			Ammonia (N) by IC
26512	3	26885	30452	LCS			Ammonia (N) by IC
26512	5	26885	30452	DUP		W050002028	Ammonia (N) by IC
26512	6	26885	30452	MS		W050002028	Ammonia (N) by IC
26512	7	26885	30452	MSD		W050002028	Ammonia (N) by IC
26512	4	26885	30452	SAMPLE		W050002028	Ammonia (N) by IC
		30488	BLANK				VOA Ground Water Protection
		30488	LCS				VOA Ground Water Protection
		30488	MS			W050001997	VOA Ground Water Protection
		30488	MSD			W050001997	VOA Ground Water Protection
		30488	SPK-RPD			W050001997	VOA Ground Water Protection
		30488	SAMPLE			W050002028	VOA Ground Water Protection
		30488	SURR			W050002028	VOA Ground Water Protection
26497	1	26870	30497	BLANK			Strontium 89/90
26497	2	26870	30497	LCS			Strontium 89/90
26497	3	26870	30497	DUP		W050002028	Strontium 89/90
26497	4	26870	30497	SAMPLE		W050002028	Strontium 89/90
26516	1	26889	30515	BLANK			ICP Metals Analysis, Grd H2O P
26516	2	26889	30515	LCS			ICP Metals Analysis, Grd H2O P
26516	4	26889	30515	MS		W050001783	ICP Metals Analysis, Grd H2O P
26516	5	26889	30515	MSD		W050001783	ICP Metals Analysis, Grd H2O P
26516	5	26889	30515	SPK-RPD		W050001783	ICP Metals Analysis, Grd H2O P
26516	10	26889	30515	SAMPLE		W050002028	ICP Metals Analysis, Grd H2O P
26557	1	26930	30526	BLANK			Uranium Isotopics by AEA

26557	2	26930	30526	LCS		Uranium Isotopics by AEA
26557	3	26930	30526	DUP	W050001997	Uranium Isotopics by AEA
26557	6	26930	30526	SAMPLE	W050002028	Uranium Isotopics by AEA
26559	1	26932	30546	BLANK		Plutonium Isotopics by AEA
26559	2	26932	30546	LCS		Plutonium Isotopics by AEA
26559	3	26932	30546	DUP	W050001997	Plutonium Isotopics by AEA
26559	6	26932	30546	SAMPLE	W050002028	Plutonium Isotopics by AEA
26561	1	26934	30547	BLANK		Americium by AEA
26561	2	26934	30547	LCS		Americium by AEA
26561	3	26934	30547	DUP	W050001997	Americium by AEA
26561	6	26934	30547	SAMPLE	W050002028	Americium by AEA
		30561		BLANK		SW-846 8270C Semi-Vols
		30561		LCS		SW-846 8270C Semi-Vols
		30561		MS	W050002028	SW-846 8270C Semi-Vols
		30561		MSD	W050002028	SW-846 8270C Semi-Vols
		30561		SAMPLE	W050002028	SW-846 8270C Semi-Vols
		30561		SPK-RPD	W050002028	SW-846 8270C Semi-Vols
		30561		SURR	W050002028	SW-846 8270C Semi-Vols
		30602		BLANK		PCBs complete list
		30602		LCS		PCBs complete list
		30602		MS	W050002028	PCBs complete list
		30602		MSD	W050002028	PCBs complete list
		30602		SAMPLE	W050002028	PCBs complete list
		30602		SPK-RPD	W050002028	PCBs complete list
		30602		SURR	W050002028	PCBs complete list
		30604		BLANK		WTPH-D TPH Diesel Range (Wa)
		30604		LCS		WTPH-D TPH Diesel Range (Wa)
		30604		MS	W050002028	WTPH-D TPH Diesel Range (Wa)
		30604		MSD	W050002028	WTPH-D TPH Diesel Range (Wa)
		30604		SAMPLE	W050002028	WTPH-D TPH Diesel Range (Wa)
		30604		SPK-RPD	W050002028	WTPH-D TPH Diesel Range (Wa)
		30604		SURR	W050002028	WTPH-D TPH Diesel Range (Wa)

M8141-SLF-05-328

ATTACHMENT 3

SAMPLE RECEIPT INFORMATION

**Consisting of 4 pages
Including cover page**

Waste Sampling and Characterization Facility
 P.O. BOX 1970 S3-30, Richland, WA 99352
 PHONE: (509) 373-7004/FAX: (509) 373-7134

7/29/05

ACKNOWLEDGMENT OF SAMPLES RECEIVED

File KB

Groundwater Remediation Program

Richland, WA 99354
 Attn: Steve Trent

Customer Code: GPP
 PO#: 119152/ES20
 Group#: 20051337
 Project#: F05-023
 Proj Mgr: Steve Trent A0-21
 Phone: 373-5869

The following samples were received from you on 06/29/05. They have been scheduled for the tests listed beside each sample. If this information is incorrect, please contact your service representative. Thank you for using Waste Sampling and Characterization Facility.

Sample#	Sample Id	Matrix	Sample Date
Tests Scheduled			
W050002028 B1D994	TRENT	Solid, or handle as if solid	06/29/05
	@2008	@AEA-30 @AEA-31 @AEA-32 @GEA-GPP	
	@GPP6010	@IC-30 @PCBGPP @SR89 90 @SVOCGPP @TPHD	
	@VOA-GPP	NH4-IC PERSOLID PH-30	

Test Acronym Description

Test Acronym	Description
@2008	ICP-2008 MS All possible metal
@AEA-30	Plutonium Isotopics by AEA
@AEA-31	Americium by AEA
@AEA-32	Uranium Isotopics by AEA
@GEA-GPP	Gamma Energy Analysis-grd H2O
@GPP6010	ICP Metals Analysis, Grd H2O P
@IC-30	Anions by Ion Chromatography
@PCBGPP	PCBs complete list
@SR89 90	Strontium 89/90
@SVOCGPP	SW-846 8270C Semi-Vol
@TPHD-WA	WTPH-D TPH Diesel Range (Wa)
@VOA-GPP	VOA Ground Water Protection
NH4-IC	Ammonia (N) by IC
PERSOLID	Percent Solids
PH-30	pH Soil and Waste Measurement

Fluor Hanford Inc.

		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				F05-023-027		PAGE 1 OF 2	
COLLECTOR Pope/Pfister/Mokler/Weis/Tyra		COMPANY CONTACT TRENT, SJ	TELEPHONE NO. 373-5869	PROJECT COORDINATOR TRENT, SJ		PRICE CODE 8N		DATA TURNAROUND 45 Days / 45 Days	
SAMPLING LOCATION 216-A-8, I-7		PROJECT DESIGNATION 216-A-8 Crib Characterization Borehole		SAF NO. F05-023		AIR QUALITY			
ICE CHEST NO.		FIELD LOGBOOK NO. HNF-N-336-1	COA 119152ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE					
SHIPPED TO Waste Sampling & Characterization		OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.					
MATRIX* A=Air DL=Drum Liquids DS=Drum Solids L=Liquid O=Oil S=Soil SE=Sediment T=Tissue V=Vegetation W=Water WI=Wipe X=Other	POSSIBLE SAMPLE HAZARDS/ REMARKS	PRESERVATION	Cool 4C	Cool 4C	Cool 4C	Cool 4C	Cool 4C	None	
		TYPE OF CONTAINER	aGs*	aG	G/P	aG	G/P	Square Bottle - Poly	
		NO. OF CONTAINER(S)	3	1	1	1	1	1	
		VOLUME	40mL	120mL	120mL	120mL	120mL	500mL	
	SPECIAL HANDLING AND/OR STORAGE <i>20051357</i>	SAMPLE ANALYSIS	SEE ITEM (1) IN SPECIAL INSTRUCTIONS	SEE ITEM (2) IN SPECIAL INSTRUCTIONS	SEE ITEM (3) IN SPECIAL INSTRUCTIONS	PCB- 8082;	SEE ITEM (4) IN SPECIAL INSTRUCTIONS	SEE ITEM (5) IN SPECIAL INSTRUCTIONS	
B1D994	MATRIX* SOIL <i>WOS100Z02%</i>	SAMPLE DATE <i>6/29/05</i>	SAMPLE TIME <i>0905 X X X X X X</i>						
CHAIN OF POSSESSION		SIGN/ PRINT NAMES				SPECIAL INSTRUCTIONS SEE PAGE 2 FOR ALL SPECIAL INSTRUCTIONS <i>B1D989 IS TIED TO THIS CHAIN</i>			
RELINQUISHED BY/REMOVED FROM <i>URC/K4 men 6/29/05</i>	DATE/TIME 1000	RECEIVED BY/STORED IN <i>TA FRAZIER 6/29/05 1000</i>	DATE/TIME <i>6/29/05 1000</i>	RECEIVED BY/STORED IN	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	RECEIVED BY/STORED IN	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	RECEIVED BY/STORED IN	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	RECEIVED BY/STORED IN	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	RECEIVED BY/STORED IN	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	RECEIVED BY/STORED IN	
RELINQUISHED BY/REMOVED FROM	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	RECEIVED BY/STORED IN	DATE/TIME	RECEIVED BY/STORED IN	
LABORATORY SECTION	RECEIVED BY					TITLE	DATE/TIME		
FINAL SAMPLE DISPOSITION	DISPOSAL METHOD					DISPOSED BY	DATE/TIME		

Fluor Hanford Inc.		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST		F05-023-027	PAGE 2 OF 2
COLLECTOR Pope/Pfister/Mokler/Wels/Tyra	COMPANY CONTACT TRENT, SJ	TELEPHONE NO. 373-5869	PROJECT COORDINATOR TRENT, SJ	PRICE CODE 8N	DATA TURNAROUND
SAMPLING LOCATION 216-A-8, 1-7	PROJECT DESIGNATION 216-A-8 Crib Characterization Borehole		SAF NO. F05-023	AIR QUALITY <input type="checkbox"/>	45 Days
ICE CHEST NO.	FIELD LOGBOOK NO. HNF-N-336-1	COA 119152ES10	METHOD OF SHIPMENT GOVERNMENT VEHICLE		
SHIPPED TO Waste Sampling & Characterization	OFFSITE PROPERTY NO.		BILL OF LADING/AIR BILL NO.		
SPECIAL INSTRUCTIONS <i>P.D.M. 7.0. Mix 7/5/2005</i> <i>P.D.M. 7.0. Mix 7/5/2005</i> (1)VOA - 8260B (TCL); VOA - 8260B (Add-On) {1-Butoanol, 1-Propanol, 2-Pentanone, Acetonitrile, Cyclohexane, Ethanol, Hexane, Tetrahydrofuran, Trichloromonofluoromethane, cis-1,2-Dichloroethylene, n-Butylbenzene, trans-1,2-Dichloroethylene} (2)Semi-VOA - 8270A (TCL); Semi-VOA - 8270B (Add-On) {1,2,4-Trimethylbenzene, 2-Butoxyethanol, 2-Naphthylamine, 3+4 Methylphenol (cresol, m+p), Benzyl alcohol, Cyclohexanone, Decane, Pyridine, Tributyl phosphate} TPM-Diesel Range - WTPH-D {Total petroleum hydrocarbons - diesel range, Total petroleum hydrocarbons - kerosene range} (3)ICP/MS - 200.8 (TAL) {Barium, Cadmium, Chromium, Copper, Nickel, Silver} ICP/MS - 200.8 (Add-on) {Arsenic, Lead, Selenium, Uranium} 200.8 ICPMS; ICP Metals - 6010B (Add-On) {Bismuth, Phosphorus} (4)IC Anions - 300.0 {Chloride, Fluoride, Nitrogen in Nitrate, Nitrogen in Nitrite, Phosphorous in phosphate, Sulfate} Cations (IC) - 300.7 {Nitrogen in ammonium} pH - 150.1; (5)Gamma Spectroscopy {Cesium-137, Cobalt-60, Europium-152, Europium-154, Europium-155} Gamma Spec Add-on {Antimony-125, Calcium-45} Gross Alpha; Gross Beta; Isotopic Plutonium; Isotopic Uranium; Americium-241; Strontium-89,90 - Total Sr; <i>MAPS 6/6/05</i>					